

CLVJ

MANUFACTURERS MOTOR VEHICLE SPECIFICATIONS

METRIC(U.S. Customary)

Passenger Car

1987

Manufacturer Pontiac Motor Division General Motors Corporation	Car Line FIREBIRD	
Mailing Address Chevrolet-Pontiac-Canada Group Engineering Center General Motors Corporation 30003 Van Dyke Warren, MI 48090-9060		
Issued NOVEMBER, 1986		Revised

Questions concerning these specifications should be directed to the manufacturer whose address is shown above.

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The General Specifications herein are those in effect at date of compilation and are subject to change without notice by the manufacturer.

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Motor Vehicle Manufacturers Association
of the United States, Inc.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

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NOTE:

1. This form uses both SI metric units and U.S. Customary units. The metric unit of measure is presented first, and the U.S. Customary unit follows in parentheses.
2. UNLESS OTHERWISE INDICATED:
 - a. Specifications apply to standard models without optional equipment. Significant deviations are noted.
 - b. Nominal design dimensions are used throughout these specifications.
 - c. All linear dimensions are in millimeters (inches), and all mass (weight) specifications are in kilograms (pounds).
3. The General Specifications herein are those in effect at date of completion and are subject to change without notice by the manufacturer.
4. Additional Car and Body Dimensions (based in part on SAE J1100 "Motor Vehicle Dimensions") may be available from the manufacturer.

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Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (•) _____

Car Models

Model Description & Drive (FWD RWD)	Introduction Date	Make, Car Line, Series, Body Type (Mfr's Model Code)	No. of Designated Seating Positions (Front/Rear)		Max. Trunk Cargo Load-Kilograms (Pounds)
REAR WHEEL DRIVE FIREBIRD		MODEL NUMBER	FRONT/REAR		
<u>FIREBIRD</u>					
FIREBIRD 2-Door Sport Coupe		2FP87	2	2	45.4 (100.1)
FIREBIRD TRANS AM 2-Door Sport Coupe.		2FW87	2	2	45.4 (100.1)
<u>MODEL OPTION</u>					
FIREBIRD FORMULA 2-Door Sport Coupe		2FS87 w/W66	2	2	45.4 (100.1)
TRANS AM - GTA 2-Door Sport Coupe		2FW87 w/Y84	2	2	45.4 (100.1)

ALL MODELS SHARE COMMON HATCHBACK BODY.

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Power Teams (Indicate whether standard or optional)

SAE J1349 Net bhp (brake horsepower) and net torque corrected to 77°F/25° C and 29.61 in. Hg. 100 kPa atmospheric pressure.

SERIES AVAILABILITY	ENGINE					E x h a u s t S/D	TRANSMISSION/ TRANSAXLE	AXLE RATIO (std. first)
	Displ. Liters (in ³)	Carb. (Barrels, FI, etc.)	Compr. Ratio	SAE Net at RPM				
				Power kW (bhp)	Torque N • m (lb. ft.)			
<u>STANDARD</u>								
FIREBIRD	2.8L (173) V6 LB8	MPFI	8.9:1	(135 @ 4900)	(160 @ 3900)	S	5M 4A-700-R4 (OPTIONAL)	3.42/3.45 (a) 3.42/3.45 (a)
<u>STANDARD</u>								
FIREBIRD FORMULA								
FIREBIRD TRANS AM	5.0L (305) V8 LG4	4BBL	9.3:1	(170 @ 4400)	(250 @ 2800)	S	5M 4A-700-R4 (OPTIONAL)	3.23/3.27 (a) 2.73/2.77 (a)
<u>OPTIONAL</u>								
FIREBIRD, FORMULA				(205 @ 4400) MANUAL	(285 @ 3200) MANUAL			
FIREBIRD FORMULA TRANS AM TRANS AM GTA	5.0L (305) V8 LB9	PFI	9.3:1	(185 @ 4000) AUTO	(290 @ 2800) AUTO	D	5M 4A-700-R4 (OPTIONAL)	3.08 TRANS AM 3.45 FORMULA & GTA 2.73 TRANS AM 3.23 FORMULA & GTA
<u>OPTIONAL</u>								
FIREBIRD FORMULA TRANS AM TRANS AM GTA	5.7L (350) V8 L98	PFI	9.3:1	(210 @ 4400)	(320 @ 2800)	D	4A-700-R4	3.27 FORMULA & GTA 2.77 TRANS AM

(a) REAR DISC BRAKES ONLY

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Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

2.8L V6 (173 CID)
(2.8 MULTI-PORT FI)
RPO L88

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	60° V	
Manufacturer	CHEVROLET	
No. of cylinders	6	
Bore	89.0 (3.50)	
Stroke	76.0 (2.99)	
Bore spacing (C/L to C/L)	111.8 (4.40)	
Cylinder block material & mass kg (lbs.) (machined)	CAST IRON 41.731 (91.9)	
Cylinder block deck height	224 (8.82)	
Cylinder block length		
Deck clearance (minimum) (above or below block)	0.12 (.0047) BELOW	
Cylinder head material & mass kg (lbs.)	CAST IRON 11.227 (24.8)	
Cylinder head volume (cm³)	- -	
Cylinder liner material		
Head gasket thickness (compressed)	.838 (.033)	
Minimum combustion chamber total volume (cm³)	51.546 (2.029)@	
Cyl. no. system (front to rear)*	L. Bank	1-3-5
	R. Bank	2-4-6
Firing order	1-2-3-4-5-6	
Intake manifold material & mass [kg (lbs.)]**	CAST ALUM./2.370(5.1)CTR, 3.810(8.4)LWR	
Exhaust manifold material & mass [kg (lbs.)]**	CAST IRON/3.610(8.0)RH, 2.425 (5.3) LH.	
Recommended fuel (leaded, unleaded, diesel)	UNLEADED	
Fuel antiknock index (R + M) 2	87	
Total dressed engine mass (wt) dry***	195.7(431.4)AUTO, 206.9 (456.1) MAN	

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	CAST ALUMINUM ALLOY .467 (1.0)
--	-----------------------------------

Engine - Camshaft

Location		IN BLOCK ABOVE CRANKSHAFT
Material & mass kg (weight, lbs.)		CAST IRON/3.098 (6.83)
Drive type	Chain / belt	CHAIN
	Width / pitch	19.4/60.9

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following:

ⓐ-PISTON AT IDC, SPARK PLUG AND VALVES IN PLACE, AND
CYLINDER HEAD TORQUED TO SPECIFICATIONS.

** ALL THOSE ITEMS NECESSARY TO MAKE ENGINE A COMPLETE
READY-TO-RUN UNIT.

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METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
4-BBL. CARBUETOR
RPO LG4

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	90° FRONT LONGITUDINAL
Manufacturer	CHEVROLET
No. of cylinders	8
Bore	94.89 (3.74)
Stroke	88.39 (3.48)
Bore spacing (C/L to C/L)	111.8 (4.40)
Cylinder block material & mass kg (lbs.) (machined)	CAST IRON 68.674 (151.4)
Cylinder block deck height	229.2 (9.025)
Cylinder block length	
Deck clearance (minimum) (above or below block)	.635 (.025) BELOW
Cylinder head material & mass kg (lbs.)	CAST IRON 19.8 (43.7)
Cylinder head volume (cm³)	---
Cylinder liner material	
Head gasket thickness (compressed)	.533 (.021)
Minimum combustion chamber total volume (cm³)	55.2 (+ 2.2)
Cyl. no. system (front to rear)*	L. Bank 1-3-5-7 R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Intake manifold material & mass (kg (lbs.))**	CAST ALUMINUM/6.900 (15.2)
Exhaust manifold material & mass (kg (lbs.))**	CAST IRON/4.345 (9.6) L.H., 3.800 (8.4) R.H.
Recommended fuel (leaded, unleaded, diesel)	UNLEADED
Fuel antiknock index (R + M) 2	87
Total dressed engine mass (wt) dry***	275.1 (606.5) AUTO, 290.8 (641.1) MAN

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	ALUMINUM .645 (1.4)
--	------------------------

Engine - Camshaft

Location	IN BLOCK ABOVE CRANKSHAFT
Material & mass kg (weight, lbs.)	SAE 5150 STEEL, 4.124 (9.1)
Drive type	Chain / belt CHAIN
	Width / pitch 15.976 (.625)/.5

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following:

ALL THOSE ITEMS NECESSARY TO MAKE ENGINE
A COMPLETE READY-TO-RUN UNIT.

Passenger Car METRIC (U.S. Customary)

Model Year 1987 Issued 11-86 Revised (•)

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
(TUNED PORT FUEL INJECTION)
RPO LB9

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	90° FRONT LONGITUDINAL
Manufacturer	CHEVROLET
No. of cylinders	8
Bore	94.89 (3.74)
Stroke	88.39 (3.48)
Bore spacing (C/L to C/L)	111.8 (4.40)
Cylinder block material & mass kg (lbs.) (machined)	CAST IRON 68.674 (151.4)
Cylinder block deck height	229.2 (9.025)
Cylinder block length	
Deck clearance (minimum) (above or below block)	.635 (.025) BELOW
Cylinder head material & mass kg (lbs.)	CAST IRON 19.8 (44.7)
Cylinder head volume (cm ³)	NOT APPLICABLE
Cylinder liner material	
Head gasket thickness (compressed)	.533 (.021)
Minimum combustion chamber total volume (cm ³)	55.2 (+ 2.2)
Cyl. no. system (front to rear)*	L. Bank 1-3-5-7 R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Intake manifold material & mass [kg (lbs.)]**	CAST ALUMINUM/6.117 (13.5)
Exhaust manifold material & mass [kg (lbs.)]**	CAST IRON/L.H. 4.46 (9.8) R.H. 3.800 (8.4)
Recommended fuel (leaded, unleaded, diesel)	UNLEADED
Fuel antiknock index (R + M) 2	91
Total dressed engine mass (wt) dry***	282.4 (622.6) AUTO., 297.9 (656.7) MAN.

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	ALUMINUM/.645 (1.4)
--	---------------------

Engine - Camshaft

Location	IN BLOCK ABOVE CRANKSHAFT
Material & mass kg (weight, lbs.)	SAE 5150 STEEL, 4.2 (9.3)
Drive type	Chain / belt
	Width / pitch
	15.976 (.625)/.5

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following:

ALL THOSE ITEMS NECESSARY TO MAKE ENGINE
A COMPLETE READY-TO-RUN UNIT.

Passenger Car

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Model Year 1987 Issued 11-86 Revised (●)

Engine Description/Carb.
Engine Code

5.7L V8 (350 CID)
TUNED PORT FUEL INJECTION (TPI)
RPO L98

ENGINE - GENERAL

Type & description (inline, V, angle, flat, location, front, mid, rear, transverse, longitudinal, sohc, dohc, ohv, hemi, wedge, pre-camber, etc.)	90° FRONT LONGITUDINAL
Manufacturer	CHEVROLET
No. of cylinders	8
Bore	94.89 (3.74)
Stroke	88.39 (3.48)
Bore spacing (C/L to C/L)	111.8 (4.40)
Cylinder block material & mass kg (lbs.) (machined)	CAST ALLOY IRON 68.674 (151.5)
Cylinder block deck height	229.2 (9.025)
Cylinder block length	
Deck clearance (minimum) (above or below block)	(.025) BELOW
Cylinder head material & mass kg (lbs.)	CAST IRON 19.8 (43.7)
Cylinder head volume (cm³)	NOT APPLICABLE
Cylinder liner material	
Head gasket thickness (compressed)	(.021)
Minimum combustion chamber total volume (cm³)	65.38 (+ 2.2) +
Cyl. no. system (front to rear)*	L. Bank 1-3-5-7 R. Bank 2-4-6-8
Firing order	1-8-4-3-6-5-7-2
Intake manifold material & mass [kg (lbs.)]**	CAST ALUMINUM/6.117 (13.5)
Exhaust manifold material & mass [kg (lbs.)]**	CAST IRON/L.H. 4.46 (9.8), R.H. 3.800 (8.4)
Recommended fuel (leaded, unleaded, diesel)	UNLEADED
Fuel antiknock index (R + M) 2	91
Total dressed engine mass (wt) dry***	284.5 (627.3) AUTO.

Engine - Pistons

Material & mass, g (weight, oz.) - piston only	IMPACTED CAST ALUMINUM/.645 (1.4)
--	-----------------------------------

Engine - Camshaft

Location	IN CYLINDER BLOCK "V" ABOVE CRANKSHAFT
Material & mass kg (weight, lbs.)	SAE 5150 STEEL, 4.2 (9.3)
Drive type	Chain/belt
	Width/pitch
	15.976 (.625)/.5

* Rear of engine - drive takeoff. View from drive takeoff end to determine left & right side of engine.

** Finished state.

*** Dressed engine mass (weight) includes the following:

The additional engine items that are required to make the engine an independent working power unit.

This does not include radiator hoses, coolant, accelerator controls and engine mounting.

(+) Combustion chamber with piston at top dead center and all components in place torqued to specifications

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Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (e) _____

Engine Description/Carb.
Engine Code

2.8L V6 (173 CID)
(2.8 MULTI-PORT FI)
RPO LB8

Engine - Valve System

Hydraulic lifters (std., opt., NA)	STANDARD
Valves	Number intake / exhaust
	6/6
	Head O.D. intake / exhaust
	43.64(1.72)/36.20(1.43)

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]*	SAE 1037 OR 1038 STEEL .399 (0.9)
--	-----------------------------------

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]*	MODULAR CAST IRON 14.170(31.24)
End thrust taken by bearing (no.)	3
Number of main bearings	4
Seal (material, one, two piece design, etc.)	Front
	FLUOROELASTOMER, ONE-PIECE, LIP SEAL
	Rear
	FLUOROELASTOMER, ONE-PIECE, LIP SEAL

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	345-448 (50-65) @ 1200
Type oil intake (floating, stationary)	STATIONARY
Oil filter system (full flow, part, other)	FULL FLOW
Capacity of c case, less filter-refill-L (qt.)	3.8 (4.0)

Engine - Diesel Information

Diesel engine manufacturer	
Glow plug, current drain at 0°F	NOT
Injector nozzle	Type
	Opening pressure [kPa (psi)]
	APPLICABLE
Pre-chamber design	
Fuel in-jection pump	Manufacturer
	Type
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Fuel heater (yes/no)	
Water separator, description (std., opt.)	
Turbo manufacturer	
Oil cooler-type (oil to engine coolant; oil to ambient air)	
Oil filter	

Engine - Intake System

Turbo charger - manufacturer	NOT
Super charger - manufacturer	APPLICABLE
Charge cooler	

*Finished State

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Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
4-BBL. CARBURETOR
RPO LG4

Engine - Valve System

Hydraulic lifters (std., opt., NA)		STANDARD
Valves	Number intake / exhaust	8/8
	Head O.D. intake / exhaust	46.74 (1.84)38.10(1.50)

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]*	SAE 1037 OR 1038 STEEL/.388 (.855)
--	------------------------------------

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]*		NODULAR CAST IRON/23.360(51.50)
End thrust taken by bearing (no.)		5
Number of main bearings		5
Seal (material, one, two piece design, etc.)	Front	FLUROELASTOMER, ONE-PIECE, LIP SEAL
	Rear	FLUROELASTOMER, ONE-PIECE, LIP SEAL

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	345-448 (50-65) @ 2000
Type oil intake (floating, stationary)	STATIONARY
Oil filter system (full flow, part, other)	FULL FLOW
Capacity of oil case, less filter-refill-L (qt.)	4.5 (5.0)

Engine - Diesel Information

Diesel engine manufacturer		
Glow plug, current drain at 0°F		NOT
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	APPLICABLE
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine - Intake System

Turbo charger - manufacturer	NOT
Super charger - manufacturer	APPLICABLE
Charge cooler	

*Finished State

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Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
(TUNED PROT FUEL INJECTION)
RPO 1B9

Engine - Valve System

Hydraulic lifters (std., opt., NA)		STANDARD
Valves	Number intake / exhaust	8/8
	Head O.D. intake / exhaust	46.74 (1.84) 38.10 (1.50)

Engine - Connecting Rods

Material & mass (kg., (weight, lbs.))*	SAE 1037 OR 1038 STEEL/.388 (0.85)
--	------------------------------------

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]*		MODULAR CAST IRON/23.360(51.50)
End thrust taken by bearing (no.)		5
Number of main bearings		5
Seal (material, one, two piece design, etc.)	Front	FLUROELASTOMER, ONE-PIECE, LIP SEAL
	Rear	FLUROELASTOMER, ONE-PIECE, LIP SEAL

Engine - Lubrication System

Normal oil pressure (kPa (psi) at engine rpm)	345-448 (50-65) @ 2000 WITH AUTO TRANS/485-585 (70-85) @ 2000
Type oil intake (floating, stationary)	STATIONARY
Oil filter system (full flow, part, other)	FULL FLOW
Capacity of c-case, less filter-refill-L (qt.)	4.5 (5.0)

Engine - Diesel Information

Diesel engine manufacturer		
Glow plug, current drain at 0°F		NOT
Injector nozzle	Type	
	Opening pressure [kPa (psi)]	APPLICABLE
Pre-chamber design		
Fuel injection pump	Manufacturer	
	Type	
Fuel injection pump drive (belt, chain, gear)		
Supplementary vacuum source (type)		
Fuel heater (yes/no)		
Water separator, description (std., opt.)		
Turbo manufacturer		
Oil cooler-type (oil to engine coolant; oil to ambient air)		
Oil filter		

Engine - Intake System

Turbo charger - manufacturer	NOT
Super charger - manufacturer	APPLICABLE
Charge cooler	

*Finished State

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Engine Description/Carb.
Engine Code

5.7L V8 (350 CID)
TUNED-PORT FUEL INJECTION (TPI)
RPO L98

Engine - Valve System

Hydraulic lifters (std., opt., NA)	STANDARD
Valves	Number intake / exhaust
	8/8
	Head O.D. intake / exhaust
	49.28 (1.94) 38.10 (1.50)

Engine - Connecting Rods

Material & mass [kg., (weight, lbs.)]*	SAE 1037 OR 1038 STEEL/.388 (0.855)
--	-------------------------------------

Engine - Crankshaft

Material & mass [kg., (weight, lbs.)]*	MODULAR CAST IRON/22.900(50.49)
End thrust taken by bearing (no.)	5
Number of main bearings	5
Seal (material, one, two piece design, etc.)	Front
	FLUOROELASTOMER, ONE-PIECE, LIP SEAL
	Rear
	FLUOROELASTOMER, ONE-PIECE, LIP SEAL

Engine - Lubrication System

Normal oil pressure [kPa (psi) at engine rpm]	485-585 (70-85) @ 2000
Type oil intake (floating, stationary)	STATIONARY
Oil filter system (full flow, part, other)	FULL FLOW *
Capacity of c-case, less filter-refill-L (qt.)	4.5 (5.0)

Engine - Diesel Information

Diesel engine manufacturer	
Glow plug, current drain at 0°F	NOT
Injector nozzle	Type
	Opening pressure [kPa (psi)]
	APPLICABLE
Pre-chamber design	
Fuel injection pump	Manufacturer
	Type
Fuel injection pump drive (belt, chain, gear)	
Supplementary vacuum source (type)	
Fuel heater (yes/no)	
Water separator, description (std., opt.)	
Turbo manufacturer	
Oil cooler-type (oil to engine coolant; oil to ambient air)	
Oil filter	

Engine - Intake System

Turbo charger - manufacturer	NOT
Super charger - manufacturer	APPLICABLE
Charge cooler	

*Finished State

* INCLUDING ENGINE OIL COOLER

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Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

2.8L V6 (173 CID)
(2.8 MULTI-PORT FI)
RPO 188

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		STANDARD	
Coolant fill location (rad., bottle)		BOTTLE, COOLANT RECOVERY	
Radiator cap relief valve pressure (kPa (psi))		103.4 (15)	
Circulation thermostat	Type (choke, bypass)	BYPASS	
	Starts to open at °C (°F)	91° C (195°F)	
Water pump	Type (centrifugal, other)	CENTRIFUGAL	
	GPM 1000 pump rpm	15.5	
	Number of pumps	ONE	
	Drive (V-belt, other)	V-BELT	
	Bearing type	SEALED BALL-ROLLER	
	Impeller material	CAST IRON	
	Housing material	ALUMINUM	
By-pass recirculation [type (inter., ext.)]		INTERNAL	
Cooling system capacity	With heater-L(qt.)	12.3 (13.0) MAN, 12.2 (12.9) AUTO	
	With air cond.-L(qt.)	12.1 (12.8) MAN, 12.2 (12.9) AUTO	
	Opt. equipment [specify-L(qt.)]	--	
Water jackets full length of cyl. (yes, no)		YES	
Water all around cylinder (yes, no)		YES	
Water jackets open at head face (yes, no)		NO	
Radiator core	Std., A/C, HD	STD.	A/C
	Type (cross-flow, etc.)	CROSS FLOW	
	Construction (fin & tube mechanical, braze, etc.)	NOT AVAILABLE	
	Material, mass (kg (wgt. lbs.))	ALUMINUM, HIGH EFFICIENCY RADIATOR	
	Width	599.5	599.5
	Height	437.8	437.8
	Thickness	23.5	23.5
	Fins per inch @	4.0	3.0
	Radiator end tank material	PLASTIC	
Fan	Std., elec., opt.	STD., ELECTRIC	
	Number of blades & type (flex, solid, material)	5, PLASTIC SOLID	
	Diameter & projected width	423.0 (16.7)	
	Ratio (fan to crankshaft rev.)	-	
	Fan cutout type	-	
	Drive type (direct, remote)	-	
	RPM at idle (elec.)	-	
	Motor rating (wattage) (elec.)	150	
	Motor switch (type & location) (elec.)	PART ECM	
	Switch point (temp., pressure) (elec.)	190G-2100	
Fan shroud (material)	PLASTIC		

@ - DISTANCE BETWEEN TOP OF FINS

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METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
4-BBL. CARBURETOR
RPO LG4

Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		STANDARD		
Coolant fill location (rad., bottle)		BOTTLE, COOLANT RECOVERY		
Radiator cap relief valve pressure [kPa (psi)]		103.4 (15)		
Circulation thermostat	Type (choke, bypass)	CHOKER		
	Starts to open at °C (°F)	90.6°C (195°F)		
Water pump	Type (centrifugal, other)	CENTRIFUGAL		
	GPM 1000 pump rpm	12 (TOTAL COOLING SYSTEM FLOW)		
	Number of pumps	ONE		
	Drive (V-belt, other)	V-BELT		
	Bearing type	SEALED DOUBLE ROW BALL		
	Impeller material	STEEL		
	Housing material	CAST IRON		
By-pass recirculation [type (inter., ext.)]		INTERNAL		
Cooling system capacity	With heater—L.(qt.)	15.7 (16.6)		
	With air cond.—L.(qt.)	16.0 (16.9)		
	Opt. equipment [specify—L.(qt.)]	- -		
Water jackets full length of cyl. (yes, no)		YES		
Water all around cylinder (yes, no)		YES		
Water jackets open at head face (yes, no)		NO		
Radiator core	Std., A/C, HD	STD.	A/C	
	Type (cross-flow, etc.)	CROSS FLOW		
	Construction (fin & tube mechanical, braze, etc.)	NOT AVAILABLE		
	Material, mass [kg (wgt. lbs.)]	ALUMINUM, HIGH EFFICIENCY RADIATOR		
	Width	667.5	667.5	
	Height	437.8	437.8	
	Thickness	23.5	34.0	
	Fins per inch @	*	2.5	
Radiator end tank material		PLASTIC		
Fan	Std., elec., opt.	STD.	OPT.	STD., ELEC.
	Number of blades & type (flex, solid, material)	5, PLASTIC, SOLID	5, PLASTIC, SOLID	5, PLASTIC, SOLID
	Diameter & projected width	423.0 (16.7)	423.0 (16.7)	423.0 (16.7)
	Ratio (fan to crankshaft rev.)	1.08:1	.95:1	-
	Fan cutout type	CLUTCH	CLUTCH	-
	Drive type (direct, remote)	BELT	BELT	-
	RPM at idle (elec.)	--		
	Motor rating (wattage) (elec.)	150		
	Motor switch (type & location) (elec.)	TEMP. SWITCH, ENG. CYL HEAD		
	Switch point (temp., pressure) (elec.)	190C-2100		
	Fan shroud (material)	PLASTIC	PLASTIC	PLASTIC

- @ - DISTANCE BETWEEN TOP OF FINS
* - 4.0 WITH MANUAL TRANS.
3.5 WITH AUTO. TRANS.
** - 4.0 WITH MANUAL TRANS.
3.0 WITH AUTO. TRANS

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID) TUNED PORT FUEL INJECTION RPO LB9	5.7L V8 (350 CID) TUNED PORT FUEL INJECTION RPO L98
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Engine - Cooling System

Coolant recovery system (std., opt., n.a.)		STANDARD
Coolant fill location (rad., bottle)		BOTTLE, COOLANT RECOVERY
Radiator cap relief valve pressure [kPa (psi)]		103.4 (15)
Circulation thermostat	Type (choke, bypass)	CHOKE
	Starts to open at °C (°F)	90.6°C (195°F)
Water pump	Type (centrifugal, other)	CENTRIFUGAL
	GPM 1000 pump rpm	12 (TOTAL COOLING SYSTEM FLOW)
	Number of pumps	ONE
	Drive (V-belt, other)	V-BELT
	Bearing type	SEALED DOUBLE ROW BALL
	Impeller material	STEEL
	Housing material	CAST IRON
By-pass recirculation [type (inter., ext.)]		INTERNAL
Cooling system capacity	With heater—L (qt.)	16.78 (17.7)
	With air cond.—L (qt.)	16.28 (17.2)
	Opt. equipment [specify—L (qt.)]	--
Water jackets full length of cyl. (yes, no)		YES
Water all around cylinder (yes, no)		YES
Water jackets open at head face (yes, no)		NO
Radiator core	Std., A/C, HD	STD.
	Type (cross-flow, etc.)	CROSS FLOW
	Construction (fin & tube mechanical, braze, etc.)	NOT AVAILABLE
	Material, mass [kg (wgt. lbs.)]	ALUMINUM, HIGH EFFICIENCY RADIATOR
	Width	667.5
	Height	437.8
	Thickness	34.0
	Fins per inch @	2.5
Radiator end tank material		PLASTIC
Fan	Std., elec., opt.	STD. & A/C
	Number of blades & type (flex, solid, material)	5, PLASTIC, SOLID
	Diameter & projected width	423.0 (16.7) - 2 FANS
	Ratio (fan to crankshaft rev.)	- -
	Fan cutout type	- -
	Drive type (direct, remote)	- -
	RPM at idle (elec.)	- -
	Motor rating (wattage) (elec.)	150 RT. & LT.
	Motor switch (type & location) (elec.)	TEMP. SWITCH ENGINE CYLINDER HEAD
	Switch point (temp., pressure) (elec.)	2100-2200 RT. LT.
	Fan shroud (material)	PLASTIC

@ - DISTANCE BETWEEN TOP OF FINS

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

2.8L V6 (173 CID)
(2.8 MULTI-PORT FI)
RPD LB8

Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.			FUEL INJECTION
Manufacturer			NONE
Carburetor	Choke (type)		NONE
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	NONE
			NONE
		Automatic	NONE
Idle A/F mix.			PRESET-NO ADJUST PROVIDED, ECM CONTROLLED
Fuel injection	Point of injection (no.)		FUEL INJECTORS AT INLET PORTS
	Constant, pulse, flow		PULSE
	Control (electronic, mech.)		ECM
	System pressure [kPa (psi)]		300 (45)
Intake manifold heat control (exhaust or water thermostatic or fixed)			WATER
Air cleaner type	Standard		DUAL ELEMENTS
	Optional		- -
Fuel pump	Type (elec. or mech.)		ELECTRIC
	Location (eng., tank)		FUEL TANK
	Pressure range [kPa (psi)]		350 (50.8)

Fuel Tank

Capacity (refill L (gallons))		58.7 (15.5)
Location (describe)		REAR CENTER
Attachment		UNDERBODY STRAP
Material & Mass (kg (weight lbs))		STEEL, 8.579 (18.9)
Filler pipe	Location & material	LEFT REAR QUARTER
	Connection to tank	SOLDER
Fuel line (material)		STEEL
Fuel hose (material)		RUBBER
Return line (material)		STEEL
Vapor line (material)		STEEL
Extended range tank	Opt., n.a.	NOT AVAILABLE
	Capacity [L (gallons)]	NOT AVAILABLE
	Location & material	NOT AVAILABLE
	Attachment	NOT AVAILABLE
Auxiliary tank	Opt., n.a.	NOT AVAILABLE
	Capacity [L (gallons)]	NOT AVAILABLE
	Location & material	NOT AVAILABLE
	Attachment	NOT AVAILABLE
	Selector switch or valve	NOT AVAILABLE
	Separate fill	NOT AVAILABLE

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (e) _____

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
4-BBL. CARBURETOR
RPO LG4

Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.			CARBURETOR
Manufacturer			ROCHESTER QUADRAJET
Carburetor	Choke (type)		ELECTRIC
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	700 RPM - NEUTRAL
			--
		Automatic	500 RPM - DRIVE
Idle A/F mix.			PRESET-NO ADJUSTMENT PROVIDED
Fuel injection	Point of injection (no.)		NOT APPLICABLE
	Constant, pulse, flow		--
	Control (electronic, mech.)		--
	System pressure [kPa (psi)]		--
Intake manifold heat control (exhaust or water thermostatic or fixed)			EXHAUST
Air cleaner type	Standard		REPLACEABLE ELEMENT, SINGLE SNORKEL
	Optional		NONE
Fuel pump	Type (elec. or mech.)		ELECTRIC
	Location (eng., tank)		IN FUEL TANK
	Pressure range [kPa (psi)]		14.5-31.0 (2.1-4.5)

Fuel Tank

Capacity (refill L (gallons))		58.7 (15.5)
Location (describe)		REAR CENTER
Attachment		UNDERBODY STRAP
Material & Mass [kg (weight lbs)]		STEEL, 8.765 (19.3)
Filler pipe	Location & material	LEFT REAR QUARTER
	Connection to tank	SOLDER
Fuel line (material)		STEEL
Fuel hose (material)		RUBBER
Return line (material)		STEEL
Vapor line (material)		STEEL
Extended range tank	Opt., n.a.	NOT AVAILABLE
	Capacity [L (gallons)]	NOT AVAILABLE
	Location & material	NOT AVAILABLE
	Attachment	NOT AVAILABLE
Auxiliary tank	Opt., n.a.	NOT AVAILABLE
	Capacity [L (gallons)]	NOT AVAILABLE
	Location & material	NOT AVAILABLE
	Attachment	NOT AVAILABLE
	Selector switch or valve	NOT AVAILABLE
	Separate fill	NOT AVAILABLE

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (e) _____

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
(TUNED PORT FUEL INJECTION)
RPO LB9

Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.		FUEL INJECTION
Manufacturer		NONE
Carburetor	Choke (type)	NONE
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual
		Automatic
Idle A/F mix.		PRESET-NO ADJUSTMENT PROVIDED
Fuel injection	Point of injection (no.)	FUEL INJECTION AT INLET PORTS
	Constant, pulse, flow	PULSE
	Control (electronic, mech.)	ECM
	System pressure (kPa (psi))	300 (44)
Intake manifold heat control (exhaust or water thermostatic or fixed)		NOT APPLICABLE
Air cleaner type	Standard	REPLACEABLE DUAL ELEMENTS
	Optional	- -
Fuel pump	Type (elec. or mech.)	ELECTRIC
	Location (eng., tank)	FUEL TANK
	Pressure range (kPa (psi))	350 (50.8)

Fuel Tank

Capacity [refill L (gallons)]		58.7 (15.5)
Location (describe)		REAR CENTER
Attachment		UNDERBODY STRAP
Material & Mass (kg (weight lbs))		STEEL, 8.579 (18.9)
Filler pipe	Location & material	LEFT REAR QUARTER
	Connection to tank	SOLDER
Fuel line (material)		STEEL
Fuel hose (material)		RUBBER
Return line (material)		STEEL
Vapor line (material)		STEEL
Extended range tank	Opt., n.a.	NOT AVAILABLE
	Capacity [L (gallons)]	NOT AVAILABLE
	Location & material	NOT AVAILABLE
	Attachment	NOT AVAILABLE
Auxiliary tank	Opt., n.a.	NOT AVAILABLE
	Capacity [L (gallons)]	NOT AVAILABLE
	Location & material	NOT AVAILABLE
	Attachment	NOT AVAILABLE
	Selector switch or valve	NOT AVAILABLE
	Separate fill	NOT AVAILABLE

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description: Carb.
Engine Code

5.7L V8 (350 CID)
TUNED PORT INJECTION (TPI)
RPO L98

Engine - Fuel System (See supplemental page for details of Fuel Injection, Supercharger, Turbocharger, etc. if used)

Induction type: carburetor, fuel injection system, etc.			TPI - TUNED PORT FUEL INJECTION
Manufacturer			--
Carburetor	Choke (type)		--
	Idle spd.-rpm (spec. neutral or drive and propane if used)	Manual	--
			--
		Automatic	--
			--
Idle A/F mix.			PRESET-NO ADJUSTMENT PROVIDED
Fuel injection	Point of injection (no.)		FUEL INJECTION AT INLET PORTS
	Constant, pulse, flow		PULSE
	Control (electronic, mech.)		ELECTRONIC - ON BOARD COMPUTER
	System pressure [kPa (psi)]		255 (37)
Intake manifold heat control (exhaust or water thermostatic or fixed)			--
Air cleaner type	Standard		REPLACEABLE PAPER DUAL ELEMENTS
	Optional		--
Fuel pump	Type (elec. or mech.)		ELECTRIC
	Location (eng., tank)		IN FUEL TANK
	Pressure range [kPa (psi)]		350 (50.8)

Fuel Tank

Capacity (refill L (gallons))		58.7 (15.5)
Location (describe)		REAR CENTER
Attachment		UNDERBODY STRAP
Material & Mass [kg (weight lbs)]		STEEL, 8.579 (18.9)
Filler pipe	Location & material	LEFT REAR QUARTER
	Connection to tank	SOLID SOLDER
Fuel line (material)		STEEL
Fuel hose (material)		RUBBER
Return line (material)		STEEL
Vapor line (material)		STEEL
Extended range tank	Opt., n.a.	NOT AVAILABLE
	Capacity [L (gallons)]	NOT AVAILABLE
	Location & material	NOT AVAILABLE
	Attachment	NOT AVAILABLE
Auxiliary tank	Opt., n.a.	NOT AVAILABLE
	Capacity [L (gallons)]	NOT AVAILABLE
	Location & material	NOT AVAILABLE
	Attachment	NOT AVAILABLE
	Selector switch or valve	NOT AVAILABLE
	Separate fill	NOT AVAILABLE

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

2.8L V6 (173 CID)
(2.8 MULTI PORT FI)
RPO L88

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		COMPUTER COMMAND CONTROL
	Air injection	Pump or pulse	PUMP - MANUAL TRANSMISSION ONLY
		Driven by	BELT
		Air distribution (head, manifold, etc.)	EXHAUST MANIFOLD
		Point of entry	EXHAUST MANIFOLD
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	BACK PRESSURE MODULATED CONTROLLED FLOW
		Exhaust source	MANIFOLD EXHAUST CROSSOVER
		Point of exhaust injection (spacer, carburetor, manifold, other)	INLET MANIFOLD
	Catalytic Converter	Type	SINGLE BED OXIDIZING & REDUCING
		Number of	ONE
		Location(s)	BENEATH RF UNDERBODY
		Volume [L (in³)]	2.782 (170)
Substrate type		MONOLIT	
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		INDUCTION SYSTEM
	Energy source (manifold vacuum, carburetor, other)		MANIFOLD VACUUM
	Discharges (to intake manifold, other)		INLET MANIFOLD
	Air inlet (breather cap, other)		AIR INLET DUCT
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	CANISTER
		Carburetor	- -
	Vapor storage provision		CANISTER
Electronic system	Closed loop (yes-no)		YES
	Open loop (yes-no)		NO

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		SINGLE WITH DUAL TAILPIPER
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		ONE REVERSE FLOW
Resonator no. & type		NONE
Exhaust pipe	Branch o.d., wall thickness	OUTER PIPE 57.15x1.02(2.25x0.04), INNER PIPE 50.08x0.086(2.0x0.003)*
	Main o.d., wall thickness	OUTER PIPE 63.5x1.02 (2.5x0.04), INNER PIPE 57.15x0.086(2.25x0.003)@
	Material & Mass [kg (weight lbs)]	STAINLESS STEEL
Inter- mediate pipe	o.d. & wall thickness	57.15 x 1.14 (2.25 x .045)
	Material & Mass [kg (weight lbs)]	ALUMINUM COATED STEEL
Tail pipe	o.d. & wall thickness	57.15 x 1.07 (2.25 x 0.042)
	Material & Mass [kg (weight lbs)]	ALUMINUM COATED STEEL

* 2.5 (0.1) AIR GAP BETWEEN PIPES.

@ 2.15 (0.08) AIR GAP BETWEEN PIPES.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (e) _____

Engine Description: Carb.
Engine Code

5.0L V8 (305 CID)
4-BBL. CARBURETOR
RPO 1G4

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		AIR INJECTION WITH COMPUTER COMMAND CONTROL
	Air Injection	Pump or pulse	VANE PUMP
		Driven by	V-BELT
		Air distribution (head, manifold, etc.)	EXH. MANIFOLD & CATALYTIC CONVERTER
		Point of entry	EXHAUST MANIFOLD
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	BACK PRESSURE MODULATED
		Exhaust source	MANIFOLD EXHAUST CROSSOVER
		Point of exhaust injection (spacer, carburetor, manifold, other)	INLET MANIFOLD
	Catalytic Converter	Type	DUAL BED, OXIDIZING & REDUCING
		Number of	ONE
		Location(s)	BENEATH RF UNDERBODY
		Volume [L (in ³)]	2.786 (170)
		Substrate type	MONOLITH
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		INDUCTION SYSTEM
	Energy source (manifold vacuum, carburetor, other)		MANIFOLD VACUUM
	Discharges (to intake manifold, other)		CARBURETOR
	Air inlet (breather cap, other)		AIR CLEANER
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	CANISTER
		Carburetor	CANISTER
	Vapor storage provision		CANISTER
Electronic system	Closed loop (yes/no)		YES
	Open loop (yes/no)		NO

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		SINGLE WITH DUAL TAILPIPES
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		ONE, REVERSE FLOW
Resonator no. & type		NONE
Exhaust pipe	Branch o.d., wall thickness	(a)
	Main o.d., wall thickness	(b)
	Material & Mass [kg (weight lbs)]	(SEE NOTES)
Inter-mediate pipe	o.d. & wall thickness	57.15 x 1.14 (2.25 x .043)
	Material & Mass [kg (weight lbs)]	ALUMINUM COATED STEEL
Tail pipe	o.d. & wall thickness	63.5 x 1.07 (2.5 x 0.042)
	Material & Mass [kg (weight lbs)]	ALUMINUM COATED STEEL

- (a) LEFT HAND BRANCH - STAINLESS STEEL; OUTER 52.15x1.02 (2.25x0.040), INNER 50.8x0.86 (2.0x0.003) WITH 2.155 (0.085) AIR GAP BETWEEN PIPES.
RIGHT HAND BRANCH - LAMINATED; STAINLESS STEEL OUTER TUBE, 50.8x0.86 (2.0x0.003), WITH STEEL INNER TUBE.
(b) STAINLESS STEEL; OUTER, 63.5x1.02 (2.5x0.040), INNER, 57.15x0.86 (2.25x0.003) WITH 2.155 (0.085) AIR GAP BETWEEN PIPES.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
(TUNED-PORT FUEL INJECTION)
RPO LB9

5.7L V8 (350 CID)
(TUNED-PORT FUEL INJECTION)
RPO L98

Vehicle Emission Control

Exhaust Emission Control	Type (air injection, engine modifications, other)		AIR INJECTION WITH COMPUTER COMMAND CONTROL
	Air Injection	Pump or pulse	AIR PUMP
		Driven by	BELT
		Air distribution (head, manifold, etc.)	EXHAUST MANIFOLD AND CATALYTIC CONVERTER
		Point of entry	EXHAUST MANIFOLD
	Exhaust Gas Recirculation	Type (controlled flow, open orifice, other)	BACK PRESSURE MODULATED CONTROLLED FLOW
		Exhaust source	MANIFOLD
		Point of exhaust injection (spacer, carburetor, manifold, other)	INLET MANIFOLD
	Catalytic Converter	Type	DUAL BED, OXIDIZING & REDUCING
		Number of	ONE
		Location(s)	BENEATH RF UNDERBODY
		Volume [L (in ³)]	2.78 (170)
		Substrate type	MONOLITH
Crankcase Emission Control	Type (ventilates to atmosphere, induction system, other)		INDUCTION SYSTEM
	Energy source (manifold vacuum, carburetor, other)		MANIFOLD VACUUM
	Discharges (to intake manifold, other)		INTAKE MANIFOLD
	Air inlet (breather cap, other)		THROTTLE BODY
Evaporative Emission Control	Vapor vented to (crankcase, canister, other)	Fuel tank	CANISTER
		Carburetor	- -
	Vapor storage provision		CANISTER
Electronic system	Closed loop (yes/no)		YES
	Open loop (yes/no)		NO

Engine - Exhaust System

Type (single, single with cross-over, dual, other)		SINGLE WITH DUAL TAILPIPES
Muffler no. & type (reverse flow, straight thru, separate resonator) Material & Mass [kg (weight lbs)]		ONE, REVERSE FLOW
Resonator no. & type		NONE
Exhaust pipe	Branch o.d., wall thickness	(a)
	Main o.d., wall thickness	(b)
	Material & Mass [kg (weight lbs)]	(SEE NOTES)
Inter- mediate pipe	o.d. & wall thickness	69.85 x 1.40 (2.7 x 0.05)
	Material & Mass [kg (weight lbs)]	ALUMINUM COATED STEEL
Tail pipe	o.d. & wall thickness	63.5 x 1.07 (2.25 x .04)
	Material & Mass [kg (weight lbs)]	ALUMINUM COATED STEEL

(a) LAMINATED - STAINLESS STEEL OUTER PIPE, 63.5x1.016 (2.5x0.040), STEEL INNER PIPE.

(b) LAMINATED - STAINLESS STEEL OUTER PIPE, 76.2x1.016 (3.0x0.040), STEEL INNER PIPE.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
 Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description Carb.
 Engine Code

2.8L V6 (173 CID)
 (2.8 MULTI-PORT FI)
 RPO LB8

Transmissions-Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Manual 4-speed (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Manual 5-speed (std., opt., n.a.) (mfr.)	STANDARD
Manual overdrive (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Automatic (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Automatic overdrive (std., opt., n.a.) (mfr.)	OPTIONAL

Manual Transmission Transaxle

Number of forward speeds		5
Transmission ratios	In first	4.03
	In second	2.37
	In third	1.50
	In fourth	1.00
	In fifth	0.76
	In overdrive	- -
	In reverse	3.76
Synchronous meshing (specify gears)		ALL FORWARD GEARS
Shift lever location		FLOOR
Lubricant	Capacity (L (pt.))	3.25 L (6.87 PTS)
	Type recommended	DEXRON II
	SAE viscosity number	
	Summer	"
	Winter	"
	Extreme cold	"

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		BELLEVILLE, DRY DISC
Assist (yes, no percent)		NO
Type pressure plate springs		DIAPHRAGM
Total spring load (N (lb.))		5750 (1293)
No. of clutch driven discs		ONE
Clutch facing	Material	NON ASBESTOS
	Manufacturer	VALERO
	Part number	F-202
	Rivets plate	16
	Rivet size	5.41x3.63 (0.213x0.143)
	Outside & inside dia.	232.0x155.0 (9.125x6.125)
	Total eff. area (cm ² (in. ²))	234.0 (36.28)
	Thickness	7.2 (0.283)
Engagement cushion method		
Release bearing	DRIVEN PLATE WAVE SPOKE SPRINGS	
	SELF CENTERING, ANGULAR CONTACT BALL BEARING	
Torsional damping	PRE-PACKED AND SEALED	
	COIL SPRINGS WITH NON-METAL FRICTION CONTROL	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description: Carb.
Engine Code

5.0L V8 (305 CID)
4-BBL. CARBURETOR
RPO LG4

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Manual 4-speed (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Manual 5-speed (std., opt., n.a.) (mfr.)	STANDARD
Manual overdrive (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Automatic (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Automatic overdrive (std., opt., n.a.) (mfr.)	OPTIONAL

Manual Transmission/Transaxle

Number of forward speeds		5
Transmission ratios	In first	2.95
	In second	1.94
	In third	1.34
	In fourth	1.00
	In fifth	0.63
	In overdrive	- -
	In reverse	2.76
Synchronous meshing (specify gears)		ALL FORWARD GEARS
Shift lever location		FLOOR
Lubricant	Capacity [L (pt.)]	3.25L (6.87 PTS.)
	Type recommended	DEXRON II
	SAE viscosity number	Summer DEXRON II
		Winter DEXRON II
		Extreme cold DEXRON II

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		BELLEVILLE, DRY'S DISC
Assist (yes, no, percent)		NO
Type pressure plate springs		DIAPHRAGM
Total spring load [N (lb.)]		7750 (1742)
No. of clutch driven discs		ONE
Clutch facing	Material	NON ASBESTOS
	Manufacturer	VALED
	Part number	F-202
	Rivets plate	18
	Rivet size	5.41 x 3.63 (0.213 x 0.143)
	Outside & inside dia.	254.0 x 165.0 (10.0 x 6.5)
	Total eff. area [cm ² (in. ²)]	293.0 (45.43)
	Thickness	7.7 (0.303)
	Engagement cushion method	DRIVEN PLATE WAVE SPOKE SPRINGS
Release bearing	Type & method of lubrication	SELF CENTERING, ANGULAR CONTACT BALL BEARING PRE-PACKED AND SEALED
Torsional damping	Method: springs, friction material	COIL SPRINGS WITH NON-METAL FRICTION CONTROL

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description-Carb.
Engine Code

5.0L V8 (305 CID)
(TUNED PORT FUEL INJECTION)
RPO LB9

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Manual 4-speed (std., opt., n.a.) (mfr.)	" "
Manual 5-speed (std., opt., n.a.) (mfr.)	STANDARD
Manual overdrive (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Automatic (std., opt., n.a.) (mfr.)	OPTIONAL
Automatic overdrive (std., opt., n.a.) (mfr.)	OPTIONAL

Manual Transmission/Transaxle

Manual Transmission/Transaxle			M39	MK6
Number of forward speeds			5	5
Transmission ratios	In first		2.95	2.95
	In second		1.94	1.94
	In third		1.34	1.34
	In fourth		1.00	1.00
	In fifth		0.63	0.74
	In overdrive		--	--
	In reverse		2.76	2.76
Synchronous meshing (specify gears)			ALL FORWARD GEARS	
Shift lever location			FLOOR	
Lubricant	Capacity [L (pt.)]		3.25L (6.87 PTS.)	
	Type recommended		DEXRON II	
	SAE viscosity number	Summer	"	
		Winter	"	
		Extreme cold	"	

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		BELLEVILLE, DRY DISC
Assist (yes, no, percent)		NO
Type pressure plate springs		DIAPHRAGM
Total spring load [N (lb.)]		7750 (1742)
No. of clutch driven discs		ONE
Clutch facing	Material	NON-ASBESTOS
	Manufacturer	VALEO
	Part number	F-202
	Rivets plate	18
	Rivet size	5.41 x 3.63 (0.213 x 0.143)
	Outside & inside dia.	267 x 165 (10.5 x 6.5)
	Total eff. area [cm ² (in. ²)]	346.0 (53.6)
	Thickness	7.7 (0.303)
Engagement cushion method		DRIVEN PLATE WAVE SPOKE SPRINGS
Release bearing	Type & method of lubrication	SELF CENTERING, ANGULAR CONTACT BALL BEARING PRE-PACKED AND SEALED
Torsional damping	Method: springs, friction material	COIL SPRINGS WITH NON-METAL FRICTION CONTROL

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description Carb.
Engine Code

5.7L V8 (350 CID)
(TUNED PORT FUEL INJECTION)
RPO L98

Transmissions/Transaxle

Manual 3-speed (std., opt., n.a.) (mfr.)	NOT AVAILABLE
Manual 4-speed (std., opt., n.a.) (mfr.)	" "
Manual 5-speed (std., opt., n.a.) (mfr.)	" "
Manual overdrive (std., opt., n.a.) (mfr.)	" "
Automatic (std., opt., n.a.) (mfr.)	" "
Automatic overdrive (std., opt., n.a.) (mfr.)	STANDARD

Manual Transmission/Transaxle

Number of forward speeds			NOT AVAILABLE	
Transmission ratios	In first		"	"
	In second		"	"
	In third		"	"
	In fourth		"	"
	In fifth		"	"
	In overdrive		"	"
	In reverse		"	"
Synchronous meshing (specify gears)			"	"
Shift lever location			"	"
Lubricant	Capacity [L (pt.)]		"	"
	Type recommended		"	"
	SAE viscosity number	Summer	"	"
		Winter	"	"
		Extreme cold	"	"

Clutch (Manual Transmission)

Make, type, engagement (describe) - (hydraulic, cable, rod)		NOT AVAILABLE
Assist (yes, no percent)		" "
Type pressure plate springs		" "
Total spring load [N (lb.)]		" "
No. of clutch driven discs		" "
Clutch facing	Material	" "
	Manufacturer	" "
	Part number	" "
	Rivets plate	" "
	Rivet size	" "
	Outside & inside dia.	" "
	Total eff. area [cm ² (in. ²)]	" "
	Thickness	" "
	Engagement cushion method	" "
Release bearing	Type & method of lubrication	" "
Torsional damping	Method: springs, friction material	" "

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description Carb.
Engine Code

2.8L V6 (173 CID)
(2.8 MULTI-PORT FI)
RPD LB8

Automatic Transmission/Transaxle

Trade name		4-SPEED AUTOMATIC
Type and special features (describe)		TORQUE CONVERTER WITH CLUTCH 700-R4
Selector	Location	ON CONSOLE
	Ltr. No. designation	P-R-N-D-2-1
Gear ratios	1st	3.06
	2nd	1.63
	3rd	1.00*
	4th	0.70*
	Reverse	2.29
Max. upshift speed - drive range (km/h (mph))		1-2=61(38), 2-3=111(69)
Max. kickdown speed - drive range (km/h (mph))		3-2=105(65), 2-1=50(31)
Min. overdrive speed (km/h (mph))		72(45.0)
Torque converter	Number of elements	3
	Max. ratio at stall	2.35
	Type of cooling (air, liquid)	LIQUID
	Nominal diameter	245 (9.65)
Lubricant	Capacity (refill L (pt.))	4.5L (9.5 PTS)
	Type Recommended	GM DEXRON II
Oil cooler (std., opt., NA, internal, external, air, liquid)		STANDARD, INTEGRAL WITH RADIATOR

Axle or Front Wheel Drive Unit

Type (front, rear)		REAR
Description		SEMI-FLOATING AXLE, OVERHUNG HYUPOID DRIVEN PINION AND RING GEAR
Limited slip differential (type)		CONE CLUTCH
Drive pinion offset		1.50
Drive pinion (type)		HYPOID GEAR
No. of differential pinions		TWO
Pinion differential adjustment (shim, other)		SHIM
Pinion differential bearing adjustment (shim, other)		COLLAPSIBLE SPACER
Driving wheel bearing (type)		ROLLER BEARING
Lubricant	Capacity [L (pt.)]	1.66
	Type recommended	GL5 GEAR LUBE
	SAE vis- cosity number	Summer 80W OR 80W-90 GL-5
		Winter 80W OR 80W-90 GL-5
		Extreme cold 80W GL-5

Axle or Transaxle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage.)

Axle ratio (or overall top gear ratio)		3.42
No. of teeth	Pinion	41
	Ring gear or gear	12
Ring gear o.d.		194 (7.625)
Transaxle	Transfer gear ratio	N.A.
	Final drive ratio	N.A.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
4-BBL. CARBURETOR
RPD LG4

Automatic Transmission/Transaxle

Trade name		4-SPEED AUTOMATIC
Type and special features (describe)		TORQUE CONVERTER WITH CLUTCH 700-R4
Selector	Location	ON CONSOLE
	Ltr. No. designation	P-R-N- D -D-2-1
Gear ratios	1st	3.06
	2nd	1.63
	3rd	1.00*
	4th	0.70*
	Reverse	2.29
Max. upshift speed - drive range (km h (mph))		1-2=59(37), 2-3=113(70)
Max. kickdown speed - drive range (km h (mph))		3-2=106(66), 2-1=42(26)
Min. overdrive speed (km h (mph))		5.8 (36)
Torque converter	Number of elements	3
	Max. ratio at stall	1.91
	Type of cooling (air, liquid)	LIQUID
	Nominal diameter	298 (11.75)
Lubricant	Capacity (refill L (pt.))	4.5L (9.5 PTS)
	Type Recommended	GM DEXRON II
Oil cooler (std., opt., NA, internal, external, air, liquid)		STANDARD INTEGRAL WITH RADIATOR

Axle or Front Wheel Drive Unit

*TORQUE CONVERTER CLUTCH IN 3rd & 4th GEARS.

Type (front, rear)		REAR
Description		SEMI-FLOATING AXLE, OVERHUNG HYPOID DRIVEN PINION AND RING GEAR
Limited slip differential (type)		CONE CLUTCH
Drive pinion offset		1.50
Drive pinion (type)		HYPOID GEAR
No. of differential pinions		TWO*, FOUR @
Pinion : differential adjustment (shim, other)		SHIM
Pinion : differential bearing adjustment (shim, other)		COLLAPSIBLE SPACER
Driving wheel bearing (type)		STRAIGHT ROLLER BEARING*, TAPERED ROLLER BEARING @
Lubricant	Capacity (L (pt.))	1.66
	Type recommended	GL5 GEAR LUBE
	SAE viscosity number	Summer 80W OR 80W-90 GL-5
		Winter 80W OR 80W-90 GL-5
		Extreme cold 80W GL-5

Axle or Transaxle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage.)

		MANUAL TRANSMISSION		AUTO TRANSMISSION	
Axle ratio (or overall top gear ratio)		3.27	3.23	2.77	2.73
No. of teeth	Pinion	36	42	36	41
	Ring gear or gear	11	13	13	15
Ring gear o.d.		197 (7.75)	194 (7.625)	190 (7.50)	194 (7.625)
Transaxle	Transfer gear ratio	- -			
	Final drive ratio	- -			

* 2.73 AND 3.23 AXLES.

@ 2.77 AND 3.27 AXLES.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description Carb.
Engine Code

5.0L V8 (305 CID)
(TUNE PORT FUEL INJECTION)
RPO LB9

5.7L V8 (350 CID)
(TUNED PORT FUEL INJECTION)
RPO L98

Automatic Transmission/Transaxle

Trade name	4-SPEED AUTOMATIC	
Type and special features (describe)	TORQUE CONVERTER WITH CLUTCH 700-R4	
Selector	Location	ON CONSOLE
	Ltr. No. designation	P-R-N-D -D-2-1
Gear ratios	1st	3.06
	2nd	1.63
	3rd	1.00*
	4th	0.70*
	Reverse	2.29
Max. upshift speed - drive range (km h (mph))		1-2=66(41), 2-3=122(76)
Max. kickdown speed - drive range (km h (mph))		1-2=55(34), 2-3=105(65)
Min. overdrive speed (km h (mph))		3-2=116 (72), 2-1=55(34)
		3-2=88(55), 2-1=32(20)
Torque converter	Number of elements	3
	Max. ratio at stall	2.15
	Type of cooling (air, liquid)	1.91
	Nominal diameter	1.91
Lubricant	Capacity (refill L (pt.))	298 (11.75)
	Type Recommended	4.5L (9.5 PTS.)
Oil cooler (std., opt., NA, internal, external, air, liquid)		GM DEXRON II

STANDARD INTEGRAL WITH RADIATOR

Axle or Front Wheel Drive Unit

*TORQUE CONVERTER CLUTCH IN 2nd, 3rd & 4th GEARS.

Type (front, rear)	REAR	
Description	SEMI-FLOATING AXLE, OVERHUNG HYPOID DRIVEN PINION AND RING GEAR	
Limited slip differential (type)	CONE CLUTCH	
Drive pinion offset	1.50	
Drive pinion (type)	HYPOID GEAR	
No. of differential pinions	TWO*, FOUR @	
Pinion differential adjustment (shim, other)	SHIM	
Pinion differential bearing adjustment (shim, other)	COLLAPSIBLE SPACER	
Driving wheel bearing (type)	STRAIGHT ROLLER BEARING*, TAPERED ROLLER BEARINGS @	
Lubricant	Capacity [L (pt.)]	1.66
	Type recommended	GL5 GEAR LUBE
	SAE viscosity number	80W OR 80W-90 GL-5
	Summer	80W OR 80W-90 GL-5
	Winter	80W OR 80W-90 GL-5
	Extreme cold	80W GL-5

Axle or Transaxle Ratio and Tooth Combinations (See 'Power Teams' for axle ratio usage.)

Axle ratio (or overall top gear ratio)		2.73	2.77	3.08	3.23	3.27	3.45
No. of teeth	Pinion	41	36	40	42	36	38
	Ring gear or gear	15	13	13	13	11	11
Ring gear o.d.		7.625	7.50	7.625	7.625	7.75	7.75
Transaxle	Transfer gear ratio	-	-	-	-	-	-
	Final drive ratio	-	-	-	-	-	-

* 2.73, 3.08 AND 3.23 AXLES.

@ 2.77, 3.27 AND 3.45 AXLES.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description Carb.
Engine Code

2.8L-V6 173 CID MFI RPO LB8	5.0L-V8 305 CID 4-BBL. CARB. RPO LG4	5.0L-V8 305 CID TPI RPO LB9	5.7L-V8 350 CID TPI RPO L98
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Propeller Shaft - Rear Wheel Drive

Manufacturer Type (straight tube, tube-in-tube, internal-external damper, etc.)		STRAIGHT TUBE - INTERNAL DAMPER	
Outer diam. x length* x wall thickness	Manual 3-speed trans.	NOT AVAILABLE	
	Manual 4-speed trans.	NOT AVAILABLE	
	Manual 5-speed trans.	63.5 x 1057 x 1.65 mm (2.5 x 41.6 x .065 in.)	
	Overdrive	NOT AVAILABLE	
	Automatic transmission	63.5 x 1057 x 1.65 mm (2.5 x 41.6 x .065 in.)	
Inter- mediate bearing	Type (plain, anti-friction)	NONE	
	Lubrication (fitting, prepack)	NONE	
Slip yoke	Type	SPLINED	
	Number of teeth	27	
	Spline o.d.	29.84 mm (1.174 in.)	
Universal joints	Make and mfg. no.	Front	SAGINAW SIZE 44
		Rear	SAGINAW SIZE 44
	Number used	TWO	
	Type (ball and trunnion, cross)	CROSS	
	Rear attach (u-bolt, clamp, etc.)	STRAP AND BOLTS	
	Bearing	Type (plain, anti-friction)	ANTI-FRICTION
		Lubrication (fitting, prepack)	PREPACKED
Drive taken through (torque tube, arms or springs)		TORQUE ARM	
Torque taken through (torque tube, arms or springs)		TORQUE ARM	

* Centerline to centerline of universal joints, or to centerline of rear attachment.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Body Type And/Or
Engine Displacement

ALL

Suspension - General

Car leveling	Std. opt. n.a.	NOT AVAILABLE
	Type (air, hyd., etc.)	" "
	Manual auto. controlled	" "
Provision for brake dip control		FRONT SUSPENSION GEOMETRY
Provision for accel. squat control		REAR SUSPENSION GEOMETRY
Provisions for car jacking		ON ROCKER
Shock absorber (front & rear)	Type	DIRECT, DOUBLE-ACTION, HYDRAULIC
	Make	DELCO PRODUCTS
	Piston diameter	32.0 mm (1.26) OF 35.0 mm (1.38) W/WS6 FRONT; 25.0 mm (1.0) REAR
	Rod diameter	25 mm (1.0) FRONT; 12.5 mm (0.5) REAR

Suspension - Front

Type and description		INDEPENDENT W/COIL SPRINGS,
Travel	Full jounce	75.0 mm (2.95)
	Full rebound	100.0 mm
Spring	Type (coil, leaf, other) & material	COIL, ALLOY STEEL
	Insulators (type & material)	NOT AVAILABLE
	Size (coil design height & i.d., bar length x dia.)	260.0x103.0; 2490.0x15.0 BASE (10.2x4.06); (98.0x0.59)
	Spring rate [N/mm (lb./in.)]	(a), (b), (c)
	Rate at wheel [N/mm (lb./in.)]	SPRING RATE X (2.455)
Stabilizer	Type (link, linkless, frameless)	LINK
	Material & bar diameter	STL-30.0mm(1.2) BASE & FORMULA; 34.0mm(1.34) TRANS AM; 36.0mm (1.4) W/WS6 OPT G

Suspension - Rear

Type and description		SALISBURY AXLE W/TORQUE ARM, LCA, TRACK BAR, COIL SPRINGS
Travel	Full jounce	85.0 mm (3.3)
	Full rebound	118.0 mm (4.6)
Spring	Type (coil, leaf, other) & material	COIL, STEEL ALLOY
	Size (length x width, coil design height & i.d., bar length & dia.)	254.0x102.6; 2709.0x12.0 mm (10.0x4.03); (27.9x0.472)
	Spring rate [N/mm (lb./in.)]	BASE=18-25(159-221); Y99 LB8/LG4=18-25(159-221), LB9/L98=23(204); WS6=23(204)
	Rate at wheel [N/mm (lb./in.)]	(SPRING RATE X 0.96)
	Insulators (type & material)	RUBBER ISOLATED
	h leaf	No. of leaves NOT APPLICABLE
Stabilizer	Type (link, linkless, frameless)	LINK
	Material & bar diameter	STEEL - 18.0mm(0.71) FORMULA & BASE; 23.0mm(0.91) TRANS AM (d); 24.0mm(1.9) WS6
Track bar (type)		HAT SECTION W/RUBBER BUSHINGS

(a) BASE: 64.0 (345.6) (V6), 70.0 (399.0) (V8)
(b) Y99: 96.0 (547.2) (V8), 70.0 (399.0) (V6)

(c) WS6: 96.0 (547.2)
(d) EXC. V6 WHICH USED 18.0 mm BAR

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●)

Body Type And Or
Engine Displacement

ALL

Brakes - Service

Description			SINGLE CALIPER DISC FRONT, DUO SERVO DRUM REAR (2)	
Manufacturer and brake type (std., opt., n.a.)	Front (disc or drum)		DISC	
	Rear (disc or drum)		DRUM, DISC OPTIONAL	
Self-adjusting (std., opt., n.a.)			STANDARD	
Special valving	Type (proportion, delay, metering, other)		REMOTE METERING AND PROPORTIONING, FRONT/REAR SPLIT	
Power brake (std., opt., n.a.)			STANDARD	
Booster type (remote, integral, vac., hyd., etc.)			200.0 mm (7.87 in.) TANDEM VACUUM	
Vacuum source (inline, pump, etc.)			ENGINE	
Vacuum reservoir (volume in. ³)			NONE	
Vacuum pump-type (elec. gear driven, belt driven, if other so state)			NONE	
Anti-lock device type (std., opt., n.a.) (F R)			NOT AVAILABLE	
Effective area [cm ² (in. ²)]*			615.5 (95.4) TOTAL	
Gross lining area [cm ² (in. ²)]** (F R)			691.6 (107.2) TOTAL	
Swept area [cm ² (in. ²)]*** (F R)			1985.1 (307.7) TOTAL	
Rotor	Outerworking diameter	F R	F/267.0 mm (10.5); R/267.0 mm (10.5)	
	Inner working diameter	F R	F/171.5 mm (6.75); R/171.5 mm (6.75)	
	Thickness	F R	F/26.2 mm (1.03); R/26.2 mm (1.03)	
	Material & type (vented solid)	F R	CAST IRON VENTED F/R	
Drum	Diameter & width	F R	241.0 mm (9.5) x 50.8 mm (2.0)	
	Type and material	F R	CAST IRON FINNED (ALUMINUM FOR SELECTED APPLICATIONS)	
Wheel cylinder bore			F/64.0 mm (2.5); R/19.0 mm (.75) DRUM: 48.0 mm (1.9) DISC	
Master cylinder	Bore stroke	F R	BORE: 24.0 mm (0.94) DISC/DRUM: 25.4 mm (1.0) DISC/DISC	
Pedal arc ratio			3.25:1	
Line pressure at 445 N(100 lb.) pedal load [kPa (psi)]				
Lining clearance			F R	SELF ADJUSTING F/R
Brake lining	Front wheel	Bonded or riveted (rivets seg.)		RIVETED (8)
		Rivet size		5.33x7.92 mm (0.210x0.312)
		Manufacturer		DELCO MORaine
		Lining code*****		DM8034
		Material		SEMI-METALLIC
		****	Primary or out-board	125.0x48.4x11.04 mm (4.92x1.91x0.435)
		Size	Secondary or in-board	125.0x48.4x10.55 mm (4.92x1.91x0.415)
		Shoe thickness (no lining)		DB/3.42mm (0.135); IB 4.85mm (0.191)
	Rear wheel	Bonded or riveted (rivets seg.)		RIVETED 10 PRI, 12 SEC DRUM
		Manufacturer		INLAND
		Lining Code*****		DELCO MORaine
		Material		DM5470
		****	Primary or out-board	NON-ASBESTOS
		Size	Secondary or in-board	192.5x50.8x4.98mm(7.58x2.0x0.196) 125.0x48.4x11.04mm(4.92x1.91x0.435)
Shoe thickness (no lining)		249.6x50.8x6.75mm(9.83x2.0x0.266) 125.0x48.4x10.55mm(4.92x1.91x0.415)		
DRUM F/R 1.98 mm (0.078), DISC DB/3.42 mm (0.135); IB/4.85 mm (0.191)				

*Excludes rivet holes, grooves, chamfers, etc.

**Includes rivet holes, grooves, chamfers, etc.

***Total swept area for four brakes. (Drum brake: Widest lining contact width for each brake x its contact circumference.)
(Disc brake: Square of Outer Working Dia. minus Square of inner Working Dia. multiplied by Pi/2 for each brake.)

****Size for drum brakes includes length x width x thickness.

*****Manufacturer I.D., catalog or formulation designation and coefficient of friction classification.

(a) DISC OPTIONAL FRONT/REAR

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (•) _____

Body Type And/Or
Engine Displacement

BASE	FORMULA	SE W/Y99 TRANS AM Y99 W/LBB, LG4	GTA
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Tires And Wheels (Standard)

Tires	Size (load range, ply)		215/65R15	245/50R16
	Type (bias, radial, etc.)		STEEL BELTED RADIAL	
	Inflation pressure (cold) for recommended max. vehicle load	Front (kPa (psi))	240 (35)	207 (30)
		Rear (kPa (psi))	240 (35)	207 (30)
	Rev. mile—at 70 km/h (45 mph)		801	813
Wheels	Type & material		CAST ALUMINUM	CAST ALUMINUM
	Rim (size & flange type)		15" x 7" JJ	16" x 8" JJ
	Wheel offset		8mm	
	Attachment	Type (bolt or stud)	STUD	
		Circle diameter	120.7 mm (4.75)	
		Number & size	HEX NUTS 5-M12 x 1.5	
Spare	Tire and wheel (same, if other describe)		T125/70D15, 15" x 4" COMPACT	
	Storage position & location (describe)		VERTICALLY, ADJACENT TO RH QUARTER PANEL	

Tires And Wheels (Optional)

Size (load range, ply)	P245/50R16 W/W56
Type (bias, radial, etc.)	STEEL-BELTED RADIAL
Wheel (type & material)	CAST ALUMINUM, STYLED
Rim (size, flange type and offset)	16" x 8" JJ
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Size (load range, ply)	
Type (bias, radial, etc.)	
Wheel (type & material)	
Rim (size, flange type and offset)	
Spare tire and wheel (if configuration is different than road tire or wheel, describe optional spare tire and or wheel location & storage position)	

Brakes - Parking

Type of control		HAND LEVER APPLICATION - PUSH BUTTON REVERSE
Location of control		BETWEEN FRONT SEATS
Operates on		REAR SERVICE BRAKES
If separate from service brakes	Type (internal or external)	
	Drum diameter	
	Lining size (length x width x thickness)	

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●)

Body Type And Or
Engine Displacement

ALL

Steering

Manual (std., opt., n.a.)				NOT AVAILABLE		
Power (std., opt., n.a.)				STANDARD		
Adjustable steering wheel column (tilt, telescope, other)	Type		TILT			
	Manufacturer		--			
	(Std., opt., n.a.)		OPTIONAL			
Wheel diameter** (W9) SAE J1100	Manual		NOT AVAILABLE			
	Power		368.0 mm (14.5) RIM			
Turning diameter m (ft.)	Outside front	Wall to wall (l. & r.)	11.91 m (39.1) (a)	12.02 (39.4) (b)	12.02 (39.4) (c)	
		Curb to curb (l. & r.)	11.42 m (32.6)			
	Inside rear	Wall to wall (l. & r.)	NOT AVAILABLE			
		Curb to curb (l. & r.)	" "			
Scrub Radius*				" "		
Manual	Gear	Type	" "			
		Manufacturer	" "			
		Ratios	" "			
		Gear Overall	" "			
	No. wheel turns (stop to stop)				" "	
Power	Type (coaxial, linkage, etc.)		COAXIAL RECIRCULATING BALL			
	Manufacturer		SAGINAW STEERING GEAR			
	Gear	Type	ACME WORM RECIRCULATING BALL			
		Ratios	Gear	14:1 (a)	12.7:1 (b)	12.7:1 (c)
		Overall	15.4:1	14:1	14:1	
	Pump (drive)		V-BELT			
	No. wheel turns (stop to stop)		2.72	2.47	2.26	
Linkage	Type		PARALLELOGRAM			
	Location (front or rear of wheels, other)					
	Tie rods (one or two)		FRONT			
	Inclination at camber (deg.)		TWO			
Steering axis	Bearings (type)	Upper	NOT AVAILABLE			
		Lower	BALL STUD			
		Thrust	BALL STUD			
			NONE			
Steering spindle & joint type				STEERING KNUCKLE W/SPHERICAL JOINTS		
Wheel spindle hub	Diameter	Inner bearing	31.73 - 31.74 (1.2493 - 1.2498)			
		Outer bearing	21.04 - 21.42 (0.83 - 0.84)			
	Thread (size)		3/4 - 20 UNEF - 3A (MODIFIED)			
	Bearing (type)		TAPERED ROLLER			

*The horizontal distance in the front elevation between wheel centerline and kingpin (ball joint) axis at ground.

**See BASE.

(b) RPO F41 (TRANS AM)

(c) RPO FE2 (FORMULA)

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD

Model Year 1987

Issued 11-86

Revised (●)

Body Type And/Or
Engine Displacement

ALL

Wheel Alignment

Front wheel at curb mass (wt.)	Service checking	Caster (deg.)	+5.0° (L/R SIDE TO BE EQUAL WITHIN 1.0°)
		Camber (deg.)	+1.0°
		Toe-in (outside track-mm (in.))	0.3° TOTAL
	Service reset*	Caster	+3.0° ± .5° (L/R SIDE TO BE EQUAL WITHIN 0.5°)
		Camber	+1.0 ± 0.5°
		Toe-in	+0.15° +/- 0.05° PER WHEEL
	Periodic M.V. inspection	Caster	+3° +/- .5°
		Camber	+1° +/- .5°
		Toe-in	+0.15° +/- .5°
Rear wheel at curb mass (wt.)	Service checking	Camber (deg.)	NOT APPLICABLE
		Toe-in (outside track-mm (in.))	" "
	Service reset*	Camber	" "
		Toe-in	" "
	Periodic M.V. inspection	Camber	" "
		Toe-in	" "

* Indicates pre-set, adjustable, trend set or other.

Electrical - Instruments and Equipment

Speedometer	Type (analog, digital, std., opt.)	CIRCULAR DIAL AND POINTER, 7 DIGIT ODOMETER **
	Trip odometer (std., opt., n.a.)	OPTIONAL
EGR maintenance indicator		NOT AVAILABLE
Charge indicator	Type	TELL-TALE-BASE, GAGES IN U21 & U52 *
	Warning device (light, audible)	INHERENT (IN TELLTALE)
Temperature indicator	Type	TELL-TALE-BASE, GAGES IN U21 & U52 *
	Warning device (light, audible)	INHERENT (IN TELLTALE)
Oil pressure indicator	Type	TELL-TALE-BASE, GAGES IN U21 & U52 *
	Warning device (light, audible)	INHERENT (IN TELLTALE)
Fuel indicator	Type	ELECTRIC GAGE, STANDARD POINTER BASE OR U21 ***
	Warning device (light, audible)	- -
Windshield wiper	Type (standard)	ELECTRIC 2-SPEED, DEPRESSED PARK
	Type (optional)	INTERMITTENT
	Blade length	454.4 mm (18 in.)
	Swept area [cm²(in.²)]	5792.0 (898.0)
Windshield washer	Type (standard)	PUSHBUTTON WET ARM STANDARD
	Type (optional)	NOT AVAILABLE
	Fluid level indicator (light, audible)	OPTIONAL
Rear window wiper, wiper/washer (std., opt., n.a.)		
Horn	Type	ELECTRIC VIBRATOR
	Number used	DUAL STANDARD
Other		PROVISIONS FOR ELECTRONIC CRUISE CONTROL AND OXYGEN SENSOR FLAG, CHECK ENGINE, HEADLAMP HIGH BEAM, TURN SIGNALS, BRAKE WARNING LIGHT, FASTEN SEATBELTS. DRIVER INFORMATION CENTER AVAILABLE W/U52 ELECTRONIC CLUSTER.

* REPLACED BY GAUGES.

** DIGITAL SPEEDOMETER WITH U52 ELECTRONIC CLUSTER OPTION.

*** LIQUID CRYSTAL FUEL GAGE (ANALOG) WITH U52.

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METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (•) _____

Engine Description/Carb.
Engine Code

2.8L V6 (173 CID)
MULTI-PORT FUEL INJECTION
RPO L88

Electrical - Supply System

Battery	Manufacturer	DELCO REMY	
	Model, std., (opt.)	75-525 BASE	75-570 W/UA1
	Voltage	12 V	
	Amps at 0°F cold crank	525	570
	Minutes-reserve capacity	90	90
	Amp-hrs. - 20 hr. rate	--	--
	Location	RIGHT FRONT ENGINE COMPARTMENT	
Alternator	Manufacturer	DELCO REMY	
	Rating	(a, b)	
	Ratio (alt. crank/rev.)	2.75:1	
	Optional (type & rating)	NONE	
Regulator	Type	INTEGRAL W/ALTERNATOR	

Electrical - Starting System

Start. motor	Current drain at 0°F	420 AMPS (c)
Motor drive	Engagement type	POSITIVE SHIFT SOLENOID
	Pinion engages from (front, rear)	REAR

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	--
	Other (specify)	HIGH ENERGY IGNITION (HEI)
Coil	Make	DELCO REMY
	Model	1115318 (REMOTE)
	Current	0.5
		1.0
Spark plug	Make	AC
	Model	R42CTS
	Thread (mm)	M14 x 1.254
	Tightening torque (N-m (lb. ft))	9-20 (7-15)
	Gap	1.143 (0.045)
	Number per cylinder	ONE
Distributor	Make	DELCO REMY
	Model	1103704

Electrical - Suppression

Locations & type	INTERNAL ALTERNATOR CAPACITOR, NON METALLIC HIGH-TENSION CABLES, RESISTOR SPARK PLUGS, IGNITION COIL BYPASS CAPACITOR, INTERNAL AC BLOWER MOTOR BYPASS CAPACITOR AND A/C COMPRESSION DIODE, WITH RADIO PROVISIONS; HOOD GROUNDING CLIP, ENGINE TO DASH PANEL GROUND STRAP, AND ON "HEATER-ONLY" BLOWER MOTORS, A COAX CAPACITOR.
------------------	--

- (a) 85 AMP WITH HEATER (30 AMP AT IDLE)
(b) 100 AMP WITH AIR CONDITIONING, (36 AMP AT IDLE)
(c) FIRST FIVE SECONDS OF ENGINE CRANKING AT -20°F.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

5.0L V8 (305 CID)
4-BBL CARBURETOR
RPO LG4

5.0L V8 (305 CID)
MULTI-PORT FUEL INJECTION
RPO LB9

Electrical - Supply System

Electrical -- Supply System		LG4			LB9	
Battery	Manufacturer	DELCO REMY				
	Model, std., (opt.)	75-500 (MAN)	75-525 (AUTO)	75-570 (UA1)	70-525 (BASE)	75-570 (UA1)
	Voltage	12	12	12	12	12
	Amps at 0°F cold crank	500	525	570	525	570
	Minutes-reserve capacity	90	90	90	75	90
	Amp./hrs. - 20 hr. rate					
	Location	ENGINE COMPARTMENT RIGHT FRONT				
Alternator	Manufacturer	(a, b)			105 AMP (42 AMP AT IDLE)	
	Rating	3.14:1			3.14:1	
	Ratio (alt. crank/rev.)	--			--	
	Optional (type & rating)	--				
Regulator	Type	INTEGRAL WITH ALTERNATOR				

Electrical - Starting System

Start, motor	Current drain at 0°F	390 AMPS (AUTO), 438 AMPS (MAN) (c)	470 AMPS (c)
Motor drive	Engagement type	POSITIVE SHIFT SOLENOID	
	Pinion engages from (front, rear)	REAR	

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)		HIGH ENERGY IGNITION (HEI)
	Other (specify)		
Coil	Make		DELCO REMY
	Model		REMOTE MOUNTED
	Current	Engine stopped - A	0.5
		Engine idling - A	1.0
Spark plug	Make		AC
	Model		R43TS
	Thread (mm)		M14 x 1.25
	Tightening torque (N-m (lb. ft))		9-20 (7-15)
	Gap		0.905 (0.035)
	Number per cylinder		ONE
Distributor	Make		DELCO REMY
	Model		1103698

Electrical - Suppression

Locations & type	INTERNAL ALTERNATOR CAPACITOR, NON-METALLIC HIGH-TENSION CABLES, RESISTOR SPARK PLUGS, IGNITION COIL BYPASS CAPACITOR, INTERNAL AC BLOWER MOTOR BYPASS CAPACITOR AND A/C COMPRESSION DIODE, WITH RADIO PROVISIONS; HOOD GROUNDING CLIP, ENGINE TO DASH PANEL GROUND STRAP, FUSE BLOCK CAPACITOR, AND ON "HEATER-ONLY" BLOWER MOTORS, A COAX CAPACITOR.
------------------	--

(a) 85 AMP (& C41), (30 AMP AT IDLE).

(b) 100 AMP (& C60/C67), (36 AMP AT IDLE).

(c) FIRST FIVE SECONDS OF ENGINE CRANKING AT -20°F.

MVMA Specifications Form Passenger Car

METRIC (U.S. Customary)

Car Line FIREBIRD
Model Year 1987 Issued 11-86 Revised (●) _____

Engine Description/Carb.
Engine Code

5.7L V8 (350 CID)
(TUNED PORT FUEL INJECTION)
RPO L98

Electrical - Supply System

Battery	Manufacturer	DELCO REMY
	Model, std., (opt.)	75-630
	Voltage	12 VOLT
	Amps at 0°F cold crank	630
	Minutes-reserve capacity	90
	Amp/hrs. - 20 hr. rate	--
	Location	ENGINE COMPARTMENT RIGHT FRONT
Alternator	Manufacturer	DELCO REMY
	Rating	105 AMP, 42 AMP AT IDLE
	Ratio (alt. crank/rev.)	3.14:1
	Optional (type & rating)	NONE
Regulator	Type	MICRO CIRCUIT UNITS INTEGRAL WITH ALTERNATOR

Electrical - Starting System

Start, motor	Current drain at 0°F	422 AMP (a)
Motor drive	Engagement type	POSITIVE SHIFT SOLENOID
	Pinion engages from (front, rear)	
		REAR

Electrical - Ignition System

Type	Electronic (std., opt., n.a.)	--
	Other (specify)	HIGH ENERGY IGNITION (HEI)
Coil	Make	DELCO REMY
	Model	REMOTE MOUNTED
	Current	Engine stopped - A
		Engine idling - A
Spark plug		0.5
		1.0
	Make	AC
	Model	R43TS
	Thread (mm)	M14 x 1.25 SAE
	Tightening torque (N-m (lb, ft))	9-20 (7-15)
Distributor	Gap	0.905 (0.035)
	Number per cylinder	ONE
	Make	DELCO REMY
	Model	1103698

Electrical - Suppression

Locations & type	INTERNAL ALTERNATOR CAPACITOR, NON-METALLIC HIGH-TENSION CABLES, RESISTOR SPARK PLUGS, IGNITION COIL BYPASS CAPACITOR, INTERNAL AC BLOWER MOTOR BYPASS CAPACITOR AND A/C COMPRESSION DIODE, WITH RADIO PROVISIONS; HOOD GROUNDING CLIP, ENGINE TO DASH PANEL GROUND STRAP, FUSE BLOCK CAPACITOR, AND ON "HEATER-ONLY" BLOWER MOTORS, A COAX CAPACITOR.
------------------	--

(a) FIRST FIVE SECONDS OF ENGINE CRANKING AT -20°F.

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METRIC (U.S. Customary)

Car Line FIREBIRD
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Body Type

ALL

Body

Structure	FULL UNITIZED STEEL CONSTRUCTION. COWL, ROOF, UNDERBODY AND BODY PANELS WELDED TO FORM BODY SHELL. BOLT-IN FRONT SUSPENSION CROSSMEMBER. DOORS, ROOF, HOOD AND HATCH LID DOUBLE PANEL CONSTRUCTION.
Bumper system front-rear	BODY COLOR SOFT FACIA, HONEYCOMB ABSORBER AND HEAVY GAUGE REINFORCEMENT USED FRONT AND REAR. GM 5 MPH PROTECTION.
Anti-corrosion treatment	GALVANIZED METALS, ZINC RICH PRIMERS, WAX COATING AND OTHER CORROSION RESISTANT MATERIALS USED THROUGHOUT.

Body - Miscellaneous Information

Type of finish (lacquer, enamel, other)		LACQUER OR ENAMEL (BASE COAT/CLEAR COAT)
Hood	Hinge location (front, rear)	REAR
	Type (counterbalance, prop)	GAS STRUT ASSIST
	Release control (internal, external)	INTERNAL
Trunk lid	Type (counterbalance, other)	NOT AVAILABLE
	Internal release control (elec., mech., n.a.)	NOT AVAILABLE
Hatch-back lid	Type (counterbalance, other)	DUAL GAS STRUTS - ELECTRIC FINAL CLOSURE STD.
	Internal release control (elec., mech., n.a.)	ELECTRIC RELEASE OPTIONAL
Station wagon		
Vent window control (crank, friction, pivot, power)	Front	NOT AVAILABLE
	Rear	NOT AVAILABLE
Seat cushion type (e.g., 60 40, bucket, bench, wire, foam etc.)	Front	BUCKET MOLDED FOAM PAD
	Rear	BUCKET MOLDED FOAM PAD
	3rd seat	- -
Seat back type (e.g., 60 40, bucket, bench, wire, foam etc.)	Front	RECLINING BUCKET MOLDED FOAM PAD
	Rear	FOLDING BENCH. SPLIT BACK OPTIONAL MOLDED FOAM PAD
	3rd seat	- -

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Car Line FIREBIRD
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Body Type

ALL

Restraint System

Active restraint system	Standard optional	STANDARD
	Type and description	3-POINT SHOULDER/LAP BELTS-FRONT; LAP BELTS-REAR
	Location	2-FRONT, 2-REAR
Passive seat belts	Standard optional	NOT AVAILABLE
	Power manual	NOT AVAILABLE
	2 or 3 point	NOT AVAILABLE
	Knee bar lap belt	NOT AVAILABLE

Frame

Type and description (separate frame, unitized frame, partially-unitized frame)	FULL INTEGRAL BODY FRAME, INCLUDES BOLTED ON FRONT SUSPENSION CROSSMEMBER.
---	--

Glass	SAE Ref. No.	
Windshield glass exposed surface area (cm ² (in. ²))	S1	9000.4 (1395.0)
Side glass exposed surface area (cm ² (in. ²)) - total 2-sides	S2	6519.8 (1010.6)
Backlight glass exposed surface area (cm ² (in. ²))	S3	6232.0 (966.0)
Total glass exposed surface area (cm ² (in. ²))	S4	21752.2 (3371.6)
Windshield glass (type)		CURVED-LAMINATED PLATE
Side glass (type)		CURVED-TEMPERED PLATE
Backlight glass (type)		CURVED-TEMPERED PLATE

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Body Type

ALL

Convenience Equipment (standard, optional, n.a.)

Air conditioning (manual, auto temp control)		MANUAL CONTROLS - OPTIONAL, SPORT COUPE AND TRANS AM; ELECTRONIC CONTROLS - OPTIONAL GTA AND TRANS AM.
Clock (digital, analog)		AVAILABLE ONLY W/CERTAIN RADIOS - OPTIONAL
Compass thermometer		--
Console (floor, overhead)		FULL LENGTH FRONT CONSOLE - STD; OVERHEAD CONSOLE OPT
Defroster, elec. backlight		ELECTRIC - OPTIONAL
Electronic	Diagnostic monitor (integrated, individual)	OPTIONAL FOR TRANS AM AND GTA
	Instrument cluster (list instruments)	TACHOMETER, SPEEDOMETER, TRIP ODOMETER, FUEL, OIL PRESSURE-TEMP VOLT*
	Keyless entry	NOT AVAILABLE
	Tripminder (avg spd, fuel)	OPTIONAL FOR TRANS AM AND GTA
	Voice alert (list items)	NOT AVAILABLE
	Other	
Fuel door lock (remote, key, electric)		--
Lamps	Auto head on - off delay, dimming	NOT AVAILABLE
	Cornering	NOT AVAILABLE
	Courtesy (map, reading)	OPTIONAL W/LAMP GROUP
	Door lock, ignition	NOT AVAILABLE
	Engine compartment	NOT AVAILABLE
	Fog	STANDARD TRANS AM & GTA; NOT AVAILABLE BASE DR FORMULA
	Glove compartment	NOT AVAILABLE
	Trunk	INCLUDED IN OPTIONAL LAMP GROUP
	Other	OVERHEAD READING LAMPS - OPTIONAL
Mirrors	Day night (auto man.)	MANUAL - STANDARD, AUTOMATIC - OPTIONAL
	L.H. (remote, power, heated)	REMOTE STANDARD, POWER OPTIONAL
	R.H. (convex, remote, power, heated)	MANUAL - STANDARD, POWER - OPTIONAL; BOTH CONVEX
	Visor vanity (RH, LH, illuminated)	RH - OPTIONAL
Parking brake-auto release (warning light)		HAND RELEASE, WARNING LIGHT STANDARD
Power equipment	Door locks, deck lid - specify	OPTIONAL POWER DOOR LOCKS, DECK LID RELEASE ***
	Seat (2-4-6 way) heated (driver, pass, other) lumbar, hip, thigh support (power, manual) reclining (driver, pass) memory (1-2 preset, recline)	ULTIMA SEAT - BASE GTA, OPTIONAL TRANS AM 6-WAY, DRIVER-OPTIONAL; RECLINING DRIVER/PASSENGER-STANDARD - MANUAL 4-WAY.
	Side windows	OPTIONAL
	Vent windows	NOT AVAILABLE
	Rear window	NOT AVAILABLE
Radio systems	Antenna (location, whip, w shield, power)	R.F. FENDER, FIXED MAST WITH RADIO, POWER-OPTIONAL
	AM, FM, stereo, tape, CB	AM RADIO STANDARD ****
	Speaker (number, location) Premium sound	SIX-TWO IN I.P., TWO IN SAIL PANEL, TWO SUBWOOFERS IN SAIL
Roof open air fixed (flip-up, sliding, "T")		HATCH ROOF W/REMOVABLE GLASS-OPTIONAL PANE
Speed control device		CRUISE CONTROL WITH RESUME SPEED - OPTIONAL
Speed warning device (light, buzzer, etc.)		NOT AVAILABLE
Tachometer (rpm)		U52 CLUSTER STD. ON TRANS AM, GTA & FORMULA, OPT., -BASE
Telephone system - mobile		NOT AVAILABLE U21 CLUSTER
Theft protection-type		LOCK MOUNTED ON STEERING COLUMN-LOCKS STEERING WHEEL, TRANSMISSION SHIFT LEVERS AND IGNITION.

* FULL GAGE PACKAGE (NON-ELECTRONIC) STANDARD ON TRANS AM GTA & FORMULA; OPTIONAL ON FIREBIRD.
 ** SEAT BELT WARNING, ENGINE WARNING.
 *** POWER FINAL CLOSURE LATCH STANDARD-ALL.

Radios

**** AM/FM stereo without clock; AM/FM stereo and digital clock;
AM/FM stereo cassette; AM stereo/FM stereo cassette with
equalizer and soft touch switches on tape drive; AM stereo/FM
stereo auto. reverse cassette, equalizer, all push button
control.

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

All dimensions to ground are for comparative purposes only. Dimensions are to be shown for all base body models of each car line.
SAE Ref. no. refers to the definition published in SAE Recommended Practice J1100 "Motor Vehicle Dimensions," unless otherwise specified.

Body Type	SAE Ref. No.	2F587	2FW87
Width			
ALL DIMENSIONS mm (in.) UNLESS NOTED			
Tread (front)	W101	1541 (60.7)	
Tread (rear)	W102	1564 (61.6)	
Vehicle width	W103	1838 (72.4)	
Body width at Sq RP (front)	W117	1830 (72.0)	
Vehicle width (front doors open)	W120	3939 (155.1)	
Vehicle width (rear doors open)	W121	- -	
Front fender overall width	W106	1801 (70.9)	
Rear fender overall width	W107	1832 (72.1)	
Tumble-home (deg.)	W122	31.5°	

Length

Wheelbase	L101	2566 (101.0)	
Vehicle length	L103	4839 (190.5)	4781 (191.8)
Overhang (front)	L104	1150 (45.3)	1182 (46.5)
Overhang (rear)	L105	1123 (44.2)	
Upper structure length	L123	2669 (105.1)	
Rear wheel C.L. "X" coordinate	L127	2138 (84.2)+	
Cowl point "X" coordinate	L125	108 (4.3)+	
Front end length at centerline	L126	1692 (66.6)	
Rear end length at centerline	L129	345 (13.6)	

Height **

Passenger distribution (front/rear)	PD1.2.3	** 2 - 0	
Trunk cargo load*		**	
Vehicle height	H101	1263 (49.7)	
Cowl point to ground	H114	887 (34.9)	
Deck point to ground	H138	912 (35.9)	
Rocker panel-front to ground	H112	184 (7.2)	
Bottom of door closed-front to grd.	H133	250 (9.8)	
Rocker panel-rear to ground	H111	187 (7.4)	
Bottom of door closed-rear to grd.	H135	- -	
Windshield slope angle	H122	62.0	
Backlight slope angle	H121	71.0	

Ground Clearance **

Front bumper to ground	H102	273 (10.7)	
Rear bumper to ground	H104	359 (14.1)	
Bumper to ground (front at curb mass (wt.))	H103	304 (12.0)	
Bumper to ground (rear at curb mass (wt.))	H105	378 (14.9)	
Angle of approach (degrees)	H106	15.7°	
Angle of departure (degrees)	H107	15.6°	
Ramp breakover angle (degrees)	H147	10.7°	
Axle differential to ground (front / rear)	H153	305 (12.0)	
Min. running ground clearance	H156	115 (4.5)	
Location of min. run. grd. clear.		FRONT CROSSMEMBER	

**All Vehicle Height And Ground Clearances Are Made Using EPA Loaded Vehicle Weight, Loading Conditions.

EPA LOADED VEHICLE WEIGHT is The Base Vehicle Weight Plus All Coolant And Fluids Necessary For Operation Plus 100% Of The Fuel Capacity, Plus The Weight Of All Options And Accessories Which Weigh Three Pounds Or More And Which Are Sold On At Least 33% Of The Car Line, Plus Two Occupants.

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METRIC (U.S. Customary)

Car and Body Dimensions See Key Sheets for definitions

Car Line FIREBIRD

Model Year 1987

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Body Type

SAE
Ref.
No.

2FS87

2FW87

Front Compartment

Sg RP front, "X" coordinate	L31	1050 (41.3)
Effective head room	H61	940 (37.0)
Max. eff. leg room (accelerator)	L34	1092 (43.0)
SgRP to heel point	H30	181 (7.1)
SgRP to heel point	L53	911 (35.9)
Back angle	L40	26.5°
Hip angle	L42	98.0
Knee angle	L44	133.0
Foot angle	L46	87.0
Design H-point front travel	L17	192 (7.6)
Normal driving & riding seat track trvl.	L23	171 (6.7)
Shoulder room	W3	1458 (57.4)
Hip room	W5	1434 (56.5)
Upper body opening to ground	H50	1164 (45.8)
Steering wheel maximum diameter	W9	370 (14.6)
Steering wheel angle	H18	18.0
Accel. heel pt. to steer. whl. cntr	L11	NOT AVAILABLE
Accel. heel pt. to steer. whl. cntr	H17	NOT AVAILABLE
Steering wheel to C/L of thigh	H13	89 (3.5)
Steering wheel torso clearance	L7	356 (14.0)
Headlining to roof panel (front)	H37	12 (0.5)
Undepressed floor covering thickness	H67	16 (0.6)

Rear Compartment

All Interior Dimensions Are Measured With The Seating Reference Point (SgRP) mm (1 Seat Adjuster Notch) Forward Of Rearmost Seat Position.

Sg RP Point couple distance	L50	668 (26.3)
Effective head room	H63	905 (35.6)
Min. effective leg room	L51	756 (29.8)
Sg RP (second to heel)	H31	183 (7.2)
Knee clearance	L48	-15 (-0.6)
Compartment room	L3	582 (22.9)
Shoulder room	W4	1430 (56.3)
Hip room	W6	1087 (42.8)
Upper body opening to ground	H51	- -
Back angle	L41	28.0°
Hip angle	L43	68.5
Knee angle	L45	66.5
Foot angle	L47	116.5
Headlining to roof panel (second)	H38	- -
Depressed floor covering thickness	H73	18 (0.7)

Luggage Compartment

Usable luggage capacity [L (cu. ft.)]	V1	
Liftover height	H195	879 (34.6)

Interior Volumes (EPA Classification)

Vehicle class (subcompact, compact, etc.)		SUB-COMPACT
Interior volume index (cu. ft.)		97.2
Trunk/cargo index (cu. ft.)		12.4

All linear dimensions are in millimeters (inches).

** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)
Car and Body Dimensions

See Key Sheets for definitions

Car Line FIREBIRD

Model Year 1987 Issued 11-86 Revised (●) _____

Body Type

SAE
Ref.
No.

2FS87

2FW87

Station Wagon - Third Seat

Sg RP couple distance	L85	NOT APPLICABLE
Shoulder room	W85	
Hip room	W86	
Effective leg room	L86	
Effective head room	H86	
Sg RP to heel point	H87	
Knee clearance	L87	
Seat facing direction	SD1	
Back angle	L88	
Hip angle	L89	
Knee angle	L90	
Foot angle	L91	

Station Wagon - Cargo Space

Cargo length (open front)	L200	NOT APPLICABLE
Cargo length (open second)	L201	
Cargo length (closed front)	L202	
Cargo length (closed second)	L203	
Cargo length at belt (front)	L204	
Cargo length at belt (second)	L205	
Cargo width (wheelhouse)	W201	
Rear opening width at floor	W203	
Opening width at belt	W204	
Max. rear opening width above belt	W205	
Cargo height	H201	
Rear opening height	H202	
Tailgate to ground height	H250	
Front seat back to load floor height	H197	
Cargo volume index [m ³ (ft. ³)]	V2	
Hidden cargo volume [m ³ (ft. ³)]	V4	
Cargo volume index-rear of 2-seat	V10	

Hatchback - Cargo Space

Cargo length at front seatback height	L208	886 (34.9)
Cargo length at floor (front)	L209	1156 (61.3)
Cargo length at second seatback height	L210	610 (24.0)
Cargo length at floor (second)	L211	845 (33.3)
Front seatback to load floor height	H197	360 (14.2)
Second seatback to load floor height	H198	242 (9.5)
Cargo volume index [m ³ (ft. ³)]	V3	879 (31.0)
Hidden cargo volume [m ³ (ft. ³)]	V4	- -
Cargo volume index-rear of 2-seat	V11	350 (12.4)

Aerodynamics*

Wheel lip to ground, front	H172	
Wheel lip to ground, rear	H173	
Frontal area [m ² (ft. ²)]	FA	1.95 (21.0) 1.96 (21.0)
Drag coefficient (Cd)		NOT AVAILABLE

* EPA Loaded Vehicle Weight, Loading Conditions

All linear dimensions are in millimeters (inches) unless otherwise noted.

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line FTRFBTRD
 Model Year 1987 Issued 11-86 Revised (●) _____

Body Type

2FS87

2FW87

Vehicle Fiducial Marks

Fiducial Mark Number*		Define Coordinate Location
Front	(1)	X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - FRONT, MEASURED HORIZONTALLY FROM THE BASE GRID LINE TO THE FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.
		Y - FIDUCIAL MARK TO CENTER LINE OF CAR - FRONT, WIDTH MEASUREMENT MADE FROM CENTER LINE OF CAR TO FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.
	(2)	Z - FIDUCIAL MARK TO HORIZONTAL BASE GRID LINE - FRONT, MEASURED VERTICALLY FROM BASE GRID LINE TO FRONT FIDUCIAL MARK LOCATED ON TOP OF THE FRONT SEAT ADJUSTER MOUNTING BOLT.
Rear	(1)	X - FIDUCIAL MARK TO VERTICAL BASE GRID LINE - REAR, MEASURED HORIZONTALLY FROM BASE GRID LINE TO THE REAR FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL).
		Y - FIDUCIAL MARK TO CENTER LINE OF CAR - REAR, WIDTH MEASUREMENT MADE FROM CENTER LINE OF CAR TO FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL).
	(2)	Z - FIDUCIAL MARK TO HORIZONTAL BASE GRID LINE - REAR, MEASURED VERTICALLY FROM BODY BASE GRID LINE TO THE REAR FIDUCIAL MARK LOCATED ON THE RIGHT HAND RAIL (COMPARTMENT PAN - LONGITUDINAL).
Fiducial Mark Number		
Front	W21	540 (21.3)
	L54	688 (27.1) *
	H81	-32 (-1.3) #
	H161	293 (11.5)
	** H163	267 (10.5)
Rear	W22	548 (21.6)
	L55	2815 (110.8) *
	H82	96 (3.8) #
	H162	421 (16.6)
	** H164	402 (15.8)
		* VERTICAL BASE GRID 2000 mm LINE. # HORIZONTAL BASE GRID 500 mm LINE.

* Reference - SAE Recommended Practice, J182, Motor Vehicle Fiducial Marks.

All linear dimensions are in millimeters (inches).

** EPA Loaded Vehicle Weight, Loading Conditions

MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Car Line FIREBIRD
 Model Year 1987 Issued 11-86 Revised (●) _____

Body Type

ALL

Lamps and Headlamp Shape*

Height above ground to center of bulb or marker	Headlamp (SAE - H127)	Highest**	692.0 (27.2)
		Lowest	
	Taillamp (SAE - H128)	Highest**	759.0 (29.9)
		Lowest	
	Sidemarker	Front	524.0 (20.6)
		Rear	558.0 (22.0)
Distance from C L of car to center of bulb	Headlamp	Inside	
		Outside**	622.0 (24.5)
	Taillamp	Inside	404.0 (15.9)
		Outside**	543.0 (21.4)
	Directional	Front	369.0 (14.5)
		Rear	543.0 (21.4)
Halogen headlamp (std., opt., n.a.)	Lo beam		OPTIONAL
	Hi beam		OPTIONAL
	Replaceable bulb		N.A. (SEALED BEAM)
	Shape		RECTANGULAR
Headlamp other than above	Lo beam		CONVENTIONAL
	Hi beam		CONVENTIONAL
	Replaceable		ENTIRE SEALED BEAM UNIT
	Shape		RECTANGULAR
	Type		FOUR LAMP SYSTEM

* Measured at curb mass (weight).

** If single lamps are used enter here.

All linear dimensions are in millimeters (inches) unless otherwise noted.

METRIC (U.S. Customary)

Model Year 1987 Issued 11-86 Revised (●)

* Reference - SAE J1100 Motor vehicle dimensions, curb weight definition.
 ** Shipping mass (weight) definition -

METRIC (U.S. Customary)

Model Year 1987 Issued 11-86 Revised (●)

*Also see Engine - General Section for dressed engine mass (weight).

METRIC (U.S. Customary)

Model Year 1987 Issued 11-86 Revised (●) _____

Optional Equipment Differential Mass (weight)*				
Equipment	MASS. kg. (weight. lb.)			Remarks
	Front	Rear	Total	
CRUISE CONTROL-THREE MODE WITH RESUME FEATURE (AVAILABLE ON MANUAL OR AUTOMATIC TRANSMISSIONS)	2.0 (4.4)	0 (0)	2.0 (4.4)	WITH RPO LB8 ENGINE
RPO-K34	2.4 (5.3)	0 (0)	2.4 (5.3)	WITH ALL ENGINES, EXCEPT LB8
2.8 LITER V6 (173 CID)	51.4	8.0	59.4	WITH RPO MBI
RPO-LB8	(113.3)	(17.6)	(130.9)	
	40.0 (88.2)	5.6 (12.3)	45.6 (100.5)	WITH RPO MD8
5.0 LITER V8 (305 CID)	116.2	13.2	129.4	
RPO LB9	(256.2)	(29.1)	(285.3)	
5.0 LITER V8 (305 CID)	111.0	9.2	120.2	
RPO LG4	(244.7)	(20.3)	(265.0)	
5.7 LITER V8 (305 CID)	73.4	7.0	80.4	
RPO L98	(161.8)	(15.4)	(177.2)	
AUTOMATIC TRANSMISSION WITH OVERDRIVE (700-R4)	17.2 (37.9)	5.8 (12.8)	23.0 (50.7)	WITH LB8 ENGINE
	20.8 (45.9)	8.2 (18.1)	29.0 (64.0)	WITH LG4 ENGINE
ALUMINUM WHEELS (15 x 7)	-4.6	-4.6	-9.2	
RPO N24	(-10.1)	(-10.1)	(-20.2)	
STEERING COLUMN-TILT	.8	.2	1.0	ALL MODELS
RPO N33	(1.8)	(.4)	(2.2)	

*Also see Engine - General Section for dressed engine mass (weight).

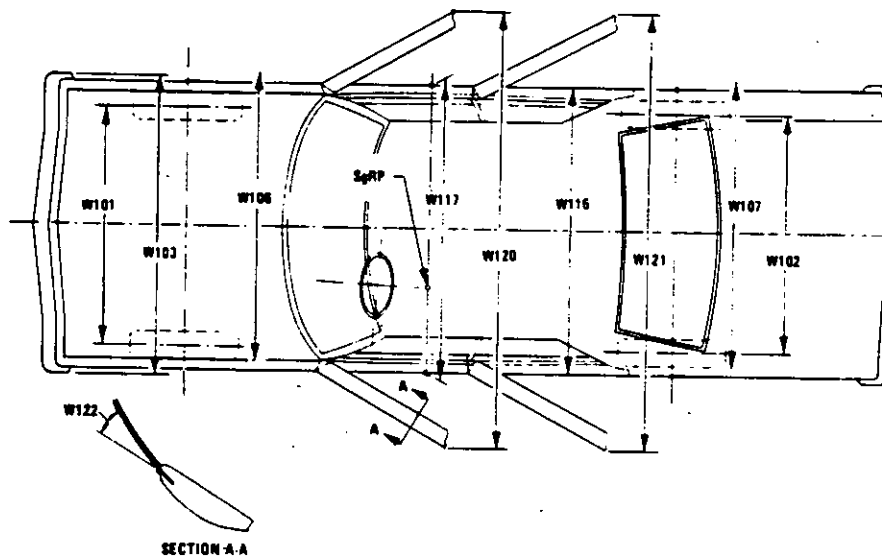
MVMA Specifications Form

Passenger Car

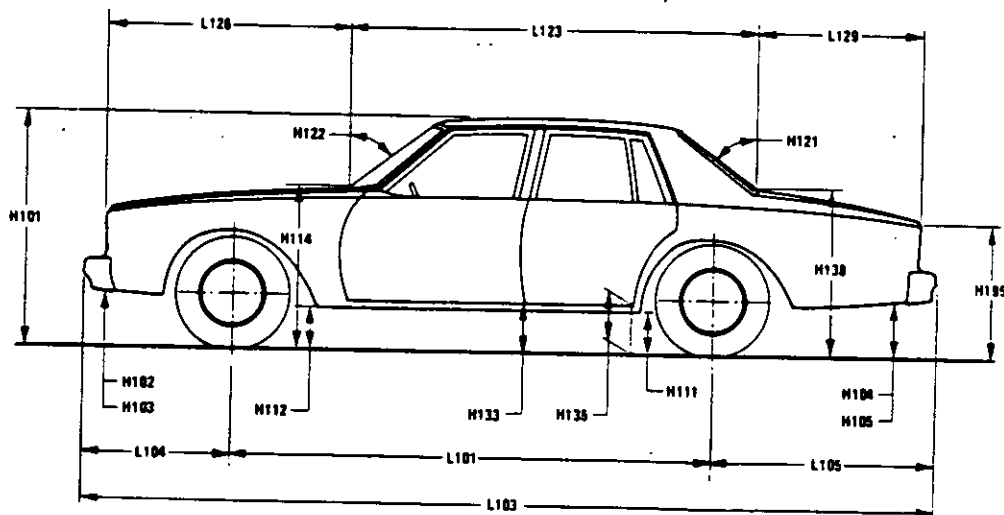
METRIC (U.S. Customary)

Exterior Car And Body Dimensions - Key Sheet

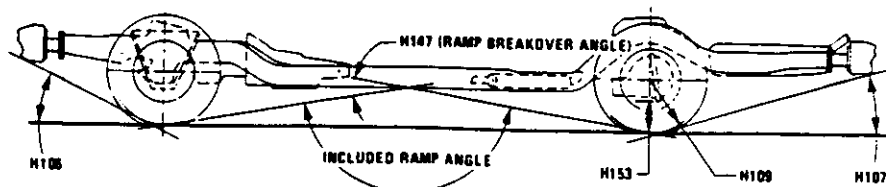
Exterior Width



Exterior Length & Height



Exterior Ground Clearance

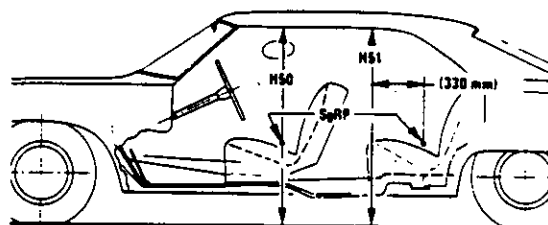
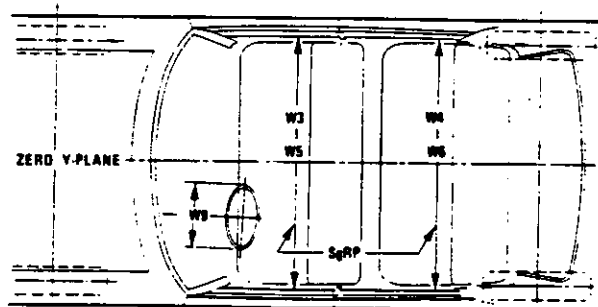
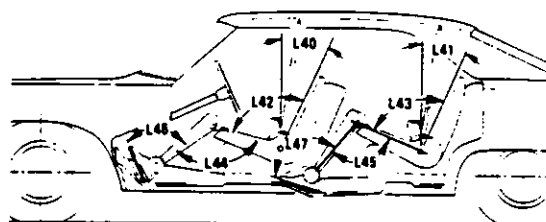
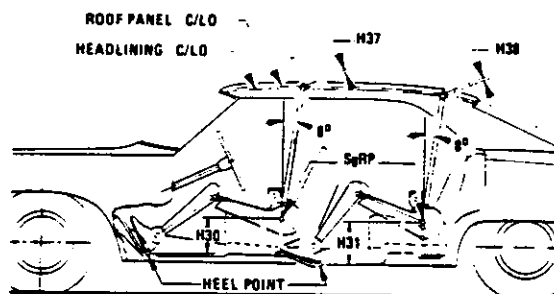
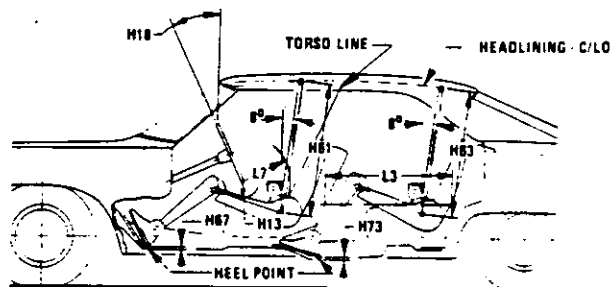
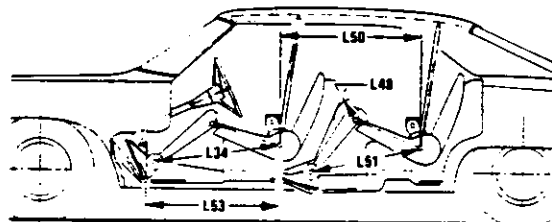


MVMA Specifications Form

Passenger Car

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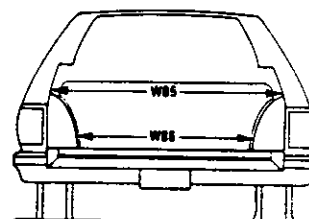
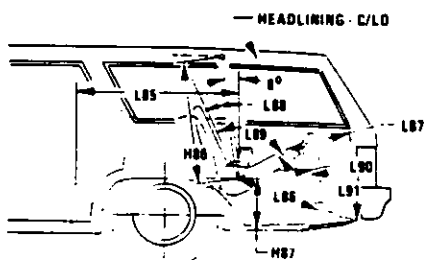
Interior Car And Body Dimensions – Key Sheet



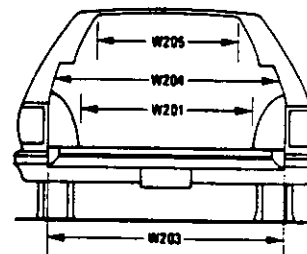
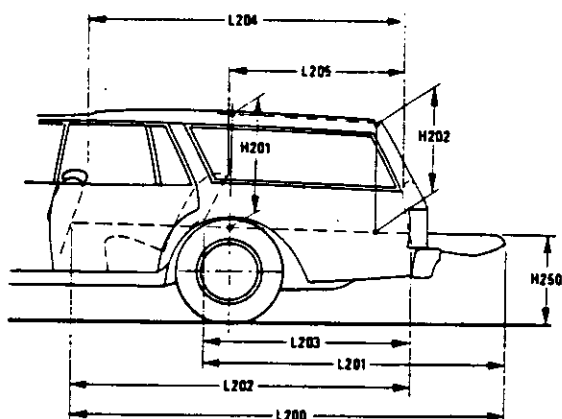
MVMA Specifications Form
Passenger Car
METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

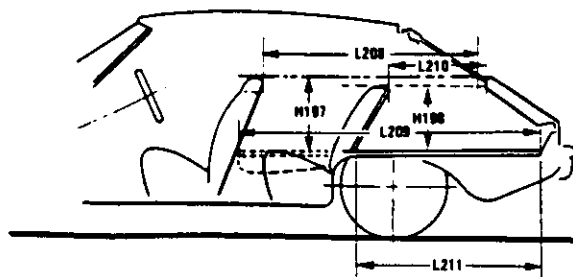
Third Seat



Cargo Space



Station Wagon



Hatchback

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Exterior Car And Body Dimensions - Key Sheet

Dimensions Definitions

Seating Reference Point

SEATING REFERENCE POINT means the manufacturer's design reference point which -

- (a) Establishes the rearmost normal design driving or riding position of each designated seating position in a vehicle;
- (b) Has coordinates established relative to the design vehicle structure;
- (c) Simulates the position of the pivot center of the human torso and thigh; and
- (d) Is the reference point employed to position the two dimensional templates described in SAE Recommended Practice J826, "Devices for Use in Defining and Measuring Vehicle Seating Accommodations."

Width Dimensions

- W101 TREAD-FRONT. The dimension measured between the tire centerlines at the ground.
- W102 TREAD-REAR. The dimension measured between the tire centerlines at the ground. In case of dual wheels, the dimension will be measured to the centerline of tire and wheel assemblies.
- W103 VEHICLE WIDTH. The maximum dimension measured between the widest point on the vehicle, excluding exterior mirrors, flexible mud flaps, marker lamps, but including bumpers, moldings, sheet metal protrusions or dual wheels, if standard equipment.
- W106 FRONT FENDER WIDTH. The dimension measured between the widest points at the front wheel centerline, excluding moldings.
- W107 REAR FENDER WIDTH. The dimension measured between the widest points at the rear wheel centerline, excluding moldings.
- W117 BODY WIDTH AT SgRP-FRONT. The dimension measured laterally between the widest points on the body at the SgRP-front, excluding door handles, applied moldings, or appliques.
- W120 VEHICLE WIDTH-FRONT DOORS OPEN. The dimension measured between the widest point on the front doors in maximum hold-open position.
- W121 VEHICLE WIDTH-REAR DOORS OPEN. The dimension measured between the widest point on the rear doors in maximum hold-open position. For vehicles with a rear door on only one side, this dimension is to the zero "Y" plane.
- W122 TUMBLE-HOME, STRAIGHT SIDE GLASS. The angle measured from a vertical to the outside surface of the front door glass at the SgRP "X" plane.
CURVED SIDE GLASS. The angle measured from a vertical to a chord extending from the upper DLO to the lower DLO at the outside surface of the front door glass at the front SgRP "X" plane.

Length Dimensions

- L101 WHEELBASE (WB). The dimension measured longitudinally between front and rear wheel centerlines. In case of dual rear axles, the dimension shall be to the midpoint of the centerlines of the rear wheels.
- L103 VEHICLE LENGTH. The maximum dimension measured longitudinally between the foremost point and the rearmost point on the vehicle, including bumper, bumper guards, tow hooks and or rub strips, if standard equipment.
- L104 OVERHANG-FRONT. The dimension measured longitudinally from the centerline of the front wheels to the foremost point on the vehicle including bumper, bumper guards, tow hooks and or rub strips, if standard equipment.
- L105 OVERHANG-REAR. The dimension measured longitudinally from the centerline of the rear wheels; or in the case

of dual rear axles, the dimension shall be the midpoint of the centerlines of the rear wheels, to the rearmost point on the vehicle including rear bumpers, bumper guards, tow hooks and rub strips, if standard equipment.

- L123 UPPER STRUCTURE LENGTH. The dimension measured longitudinally from the cowl point to the deck point.
- L125 COWL POINT "X" COORDINATE.
- L126 FRONT END LENGTH. The dimension measured longitudinally from the cowl point to the foremost point on the vehicle at the zero "Y" plane excluding ornamentation or bumpers. In cases where bumpers and or grills are integrated with the profile, measurement is made at the foremost point of front end contour.
- L127 REAR WHEEL CENTERLINE "X" COORDINATE or in the case of dual rear axles, the coordinate shall be the midpoint of the distance between the rear axle centerlines.
- L129 REAR END LENGTH. The dimension measured longitudinally from the deck point to the rearmost visible point of the body sheet metal at the zero "Y" plane, excluding ornamentation or bumpers.

Height Dimensions

- H101 VEHICLE HEIGHT. The dimension measured vertically from the highest point on the vehicle body to ground.
- H111 ROCKER PANEL-REAR TO GROUND. The dimension measured vertically from the bottom of the rocker or side quarter panel at the front of the rear wheel opening, excluding flanges, to ground.
- H112 ROCKER PANEL-FRONT TO GROUND. The dimension measured vertically from the foremost point on the bottom of the rocker panels, excluding flanges, to ground.
- H114 COWL POINT TO GROUND. Measured at zero "Y" plane.
- H121 BACKLIGHT SLOPE ANGLE. The angle between the vertical reference line and the surface of backlight at vehicle zero "Y" plane. For curve backlight, the angle is to chord of backlight arc from lower DLO to upper DLO.
- H122 WINDSHIELD SLOPE ANGLE. The angle between the vertical reference line and a chord of the windshield arc running from the lower DLO to the upper DLO at the vehicle zero "Y" plane. In the case of wrap over glass, the angle to be measured will be formed by a chord 457 mm (18.0 in) long drawn from the lower DLO to the intersecting point on the windshield.
- H127 HEADLAMP TO GROUND-CURB MASS (WT.). The dimension measured vertically from the centerline of the lowest headlamp lens to ground.
- H128 TAILLAMP TO GROUND-CURB MASS (WT.). The dimension measured vertically from the centerline of the upper bulb to ground.
- H133 BOTTOM OF DOOR CLOSED-FRONT TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H135 BOTTOM OF DOOR CLOSED-REAR TO GROUND. The dimension measured vertically from the bottom outside corner of the door on the lock pillar side, in maximum closed position, to ground.
- H138 DECK POINT TO GROUND. Measured at zero "Y" plane.
- H109 STATIC LOAD-TIRE RADIUS-REAR. Specified by the manufacturer in accordance with composite TIRE SECTION STANDARD.

Ground Clearance Dimensions

- H102 FRONT BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the front bumper to ground, including bumper guards, if standard equipment.
- H103 FRONT BUMPER TO GROUND-CURB MASS (WT.). Measured in the same manner as H102.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions – Key Sheet

Dimensions Definitions

- H104 REAR BUMPER TO GROUND. The minimum dimension measured vertically from the lowest point on the rear bumper to ground, including bumper guards, if standard equipment.
- H105 REAR BUMPER TO GROUND – CURB MASS (WT.). Measured in the same manner as H104.
- H106 ANGLE OF APPROACH. The angle measured between a line tangent to the front tire static loaded radius arc and the initial point of structural interference forward of the front tire to ground. The limiting structural component shall be designated.
- H107 ANGLE OF DEPARTURE. The angle measured between a line tangent to the rear tire static loaded radius arc and the initial point of structural interference rearward of the rear tire to ground. The limiting component shall be designated.
- H147 RAMP BREAKOVER ANGLE. The angle measured between two lines tangent to the front and rear tire static loaded radius and intersecting at a point on the underside of the vehicle which defines the largest ramp over which the vehicle can roll.
- H153 REAR AXLE DIFFERENTIAL TO GROUND. The minimum dimension measured from the rear axle differential to ground.
- H156 MINIMUM RUNNING GROUND CLEARANCE. The minimum dimension measured from the sprung vehicle to ground. Specify location.

Glass Areas

- S1 Windshield area.
- S2 Side windows area. Includes the front door, rear door, vents, and rear quarter windows on both sides of the vehicle.
- S3 Backlight areas.
- S4 Total area. Total of all areas (S1 + S2 + S3).

Fiducial Mark Dimensions

- Fiducial Mark – Number 1**
- L54 "X" coordinate.
- W21 "Y" coordinate.
- H81 "Z" coordinate.
- H161 Height "Z" coordinate to ground at curb weight.
- H163 Height "Z" coordinate to ground.
- Fiducial Mark – Number 2**
- L55 "X" coordinate.
- W22 "Y" coordinate.
- W82 "Z" coordinate.
- H162 Height "Z" coordinate to ground at curb weight.
- H164 Height "Z" coordinate to ground.

Front Compartment Dimensions

- L7 STEERING WHEEL TORSO CLEARANCE. The minimum dimension measured in the side view from the rearmost edge of the steering wheel, with front wheels in the straight ahead position, to the torso line.
- L11 ACCELERATOR HEEL POINT TO STEERING WHEEL CENTER. The dimension measured horizontally from the AHP to the intersection of the steering column centerline and a plane tangent to the upper surface of the steering wheel rim.
- L17 DESIGN H-POINT–FRONT TRAVEL. The dimension measured horizontally between the design H-point–front in the foremost and rearmost seat track positions. (See SAE J1100)
- L23 NORMAL DRIVING AND RIDING SEAT TRACK LEVEL. The dimension measured horizontally between a point on the design H-point travel line from the SgRP to the displaced point on the design H-point travel line with the seat moved to the foremost seat position, but not to include seat track travel used for purposes other than normal driving and riding positions. (See SAE J1100)
- L31 SgRP–FRONT. "X" COORDINATED.

- L34 MAXIMUM EFFECTIVE LEG ROOM–ACCELERATOR. The dimension measured along a line from the ankle pivot center to the SgRP–front plus 254 mm (10.0 in) measured with right foot on the undepressed accelerator pedal. For vehicles with SgRP to heel (H30) greater than 18 in., the accelerator pedal may be depressed as specified by the manufacturer. If the accelerator is depressed, the manufacturer shall place foot flat on pedal and note the depression of the pedal.
- L40 BACK ANGLE–FRONT. The angle measured between a vertical line through the SgRP–front and the torso line. If the seatback is adjustable, use the normal driving and riding position specified by the manufacturer.
- L42 HIP ANGLE–FRONT. The angle measured between torso line and thigh centerline.
- L44 KNEE ANGLE–FRONT. The angle measured between thigh centerline and lower leg centerline measured on the right leg.
- L46 FOOT ANGLE–FRONT. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the bare foot flesh line measured on the right leg. Ref SAE J826.
- L53 SgRP–FRONT TO HEEL. The dimension measured horizontally from the SgRP–front to the accelerator heel point.
- W3 SHOULDER ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front at height between the belt line and 254 mm (10.0 in.) above the SgRP–front, excluding the door assist strap and attaching parts.
- W5 HIP ROOM–FRONT. The minimum dimension measured laterally between the trimmed surfaces on the "X" plane through the SgRP–front within 25 mm (1.0 in.) below and 76 mm (3.0 in.) above the SgRP–front and 76 mm (3.0 in.) fore and aft of the SgRP–front.
- W9 STEERING WHEEL MAXIMUM OUTSIDE DIAMETER. Define if other than round.
- H13 STEERING WHEEL TO CENTERLINE OF THIGH. The minimum dimension measured from the bottom of steering wheel, with front wheels in the straight position, to the thigh centerline.
- H17 ACCELERATOR HEEL POINT TO THE STEERING WHEEL CENTER. The dimension measured vertically from the AHP–front to the intersection of the steering column centerline to a plane tangent to the upper surface of the steering wheel rim.
- H18 STEERING WHEEL ANGLE. The angle measured from a vertical to the surface plane of the steering wheel.
- H30 SgRP–FRONT TO HEEL. The dimension measured vertically from the SgRP–front to the accelerator heel point.
- H37 HEADLINING TO ROOF PANEL–FRONT. The dimension measured from the intersection of the headlining and the extended effective head room line normal to the sheet metal.
- H50 UPPER BODY OPENING TO GROUND–FRONT. The dimension measured vertically from the trimmed body opening to the ground on the SgRP–front "X" plane.
- H61 EFFECTIVE HEAD ROOM–FRONT. The dimension measured along a line 8 deg. rear of vertical from the SgRP–front to the headlining plus 102 mm (4.0 in.).
- H67 FLOOR COVERING THICKNESS–UNDEPRESSED–FRONT. The dimension measured vertically from the surface of the undepressed floor covering to the underbody sheet metal at the accelerator heel point.
- PD1 PASSENGER DISTRIBUTION–FRONT.

Rear Compartment Dimensions

- L3 COMPARTMENT ROOM–SECOND. The dimension measured horizontally from the back of front seat to the front of the second seatback at a height tangent to the top of the second seat cushion.

MVMA Specifications Form

Passenger Car

METRIC (U.S. Customary)

Interior Car And Body Dimensions - Key Sheet

Dimensions Definitions

- L41 BACK ANGLE-SECOND. The angle measured between a vertical line through the SgRP-second and the torso line.
- L43 HIP ANGLE-SECOND. The angle measured between torso line and thigh centerline.
- L45 KNEE ANGLE-SECOND. The angle measured between thigh centerline and lower leg centerline.
- L47 FOOT ANGLE-SECOND. The angle measured between the lower leg centerline and a line tangent to the ball and heel of the three-dimensional devices bare foot flesh line (Reference J826).
- L48 KNEE CLEARANCE-SECOND. The minimum dimension measured from the knee pivot center to the back of the front seatback minus 51 mm (2.0 in.).
- L50 SgRP COUPLE DISTANCE-SECOND. The dimension measured horizontally from the driver SgRP-front to the SgRP-second.
- L51 MINIMUM EFFECTIVE LEG ROOM-SECOND. The dimension measured along a line from the ankle pivot center to the SgRP-second plus 254mm (10.0 in.).
- W4 SHOULDER ROOM-SECOND. The minimum dimension measured laterally between door or quarter trimmed surfaces on the "X" plane through the SgRP-second at height between 254-406 mm (10.0-16.0 in.) above the SgRP-second, excluding the door assist straps and attaching parts.
- W6 HIP ROOM-SECOND. Measured in the same manner as W5.
- H31 SgRP-SECOND TO HEEL. The dimension measured vertically from the SgRP-second to the two dimensional device heel point on the depressed floor covering.
- H38 HEADLINING TO ROOF PANEL-SECOND. The dimension measured from the intersection of the headlining and the extended effective head room line normally to the roof sheet metal.
- H51 UPPER BODY OPENING TO GROUND-SECOND. The dimension measured vertically from the trimmed body opening to the ground on the "X" plane 330 mm (13.0 in.) forward of the SgRP-second.
- H63 EFFECTIVE HEAD ROOM-SECOND. The dimension measured along a line 8 deg. rear of vertical from the SgRP to the headlining, plus 102 mm (4.0 in.).
- H73 FLOOR COVERING-DEPRESSED-SECOND. The dimension measured vertically from the heel point to the underbody sheet metal.
- PD2 PASSENGER DISTRIBUTION-SECOND.

Luggage Compartment Dimensions

- V1 USABLE LUGGAGE CAPACITY-Total of volumes of individual pieces of standard luggage set plus H-boxes stowed in the luggage compartment in accordance with the procedure described in paragraph 8.2 of SAE-J1100a.
- H195 LIFTOVER HEIGHT. The dimension measured vertically from the luggage compartment lower opening at the zero "Y" plane to ground.

Interior Volumes (EPA Classification)

The Interior Volume Index is listed for each body style except two seaters. The interior volume index estimates the space in a car. It is based on four measurements - head room, shoulder room, hip room, and leg room - for the front and rear seats, plus trunk capacity. The interior volume index is an estimate of the size of the passenger compartment.

The Trunk Cargo Index is an estimate of the size of the trunk cargo space. In station wagons and hatchbacks it is an estimate of the space behind the second seat.

Station Wagon - Third Seat Dimensions

- L85 SgRP COUPLE DISTANCE-THIRD. The dimension measured horizontally from the SgRP-second to the SgRP-third.
- L86 EFFECTIVE LEG ROOM-THIRD. The dimension measured along a line from the ankle pivot center to the SgRP-third plus 254 mm (10.0 in.).
- L87 KNEE CLEARANCE-THIRD. The minimum dimension from the knee pivot center to the back of second seatback minus a constant of 51mm (2.0 in.). With rear-facing third seat, dimension is measured to closure.
- L88 BACK ANGLE-THIRD. Measured in the same mannere as L41.
- L89 HIP ANGLE-THIRD. Measured in the same manner as L43.
- L90 KNEE ANGLE-THIRD. Measured in the same manner as L45.
- L91 FOOT ANGLE-THIRD. Measured in the same manner as L47.
- W85 SHOULDER ROOM-THIRD. Measured in the same manner as W4.
- W86 HIP ROOM-THIRD. Measured in the same manner as W5.
- H86 EFFECTIVE HEAD ROOM-THIRD. The dimension, measured along a line 8 deg. from the SgRP-third to the headlining rear of vertical plus a constant of 102 mm (4.0 in.).
- H87 SgRP-THIRD TO HEEL POINT.
- PD3 PASSENGER DIRECTION-THIRD.
- SD1 SEAT FACING DIRECTION-THIRD.

Station Wagon - Cargo Space Dimensions

- L200 CARGO LENGTH-OPEN-FRONT. The minimum dimension measured longitudinally from the back of the front seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo surface if the rear closure is a conventional door type tailgate at the zero "Y" plane.
- L201 CARGO LENGTH-OPEN-SECOND. The dimension measured longitudinally from the back of the second seatback at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the open tailgate or cargo floor surface if the rear closure is a conventional door type tailgate, at the zero "Y" plane.
- L202 CARGO LENGTH-CLOSED-FRONT. The minimum dimension measured horizontally from the back of the front seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L203 CARGO LENGTH-CLOSED-SECOND. The dimension measured horizontally from the back of the second seat at the height of the undepressed floor covering to the rearmost point on the undepressed floor covering on the closed tailgate or taildoor for station wagons, trucks and mpv's at the zero "Y" plane.
- L204 CARGO LENGTH AT BELT-FRONT. The minimum dimension measured horizontally from the back of the front seatback at the seatback top to the foremost normal surface of the closed tailgate or inside surface of the cab backpanel at the height of the belt, on the zero "Y" plane.
- L205 CARGO LENGTH AT BELT-SECOND. The minimum dimension measured horizontally from the back of the second seatback at the seatback top to the foremost normal surface of the closed tailgate at the height of the belt, on the zero "Y" plane.
- W201 CARGO WIDTH-WHEELHOUSE. The minimum dimension measured laterally between the trimmed wheelhousings at floor level. For any vehicle not trimmed, measure to the sheet metal.

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Interior Car And Body Dimensions – Key Sheet Dimensions Definitions

- W203 REAR OPENING WIDTH AT FLOOR. The minimum dimension measured laterally between the limiting interferences of the rear opening at floor level.
- W204 REAR OPENING WIDTH AT BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening at belt height or top of pick up box.
- W205 REAR OPENING WIDTH ABOVE BELT. The minimum dimension measured laterally between the limiting interferences of the rear opening above the belt height.
- H197 FRONT SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undeepressed floor covering.
- H201 CARGO HEIGHT. The dimension measured vertically from the top of the undeepressed floor covering to the headlining at the rear wheel "X" coordinate on the zero "Y" plane.
- H202 REAR OPENING HEIGHT. The dimension measured vertically from the top of the undeepressed floor covering to the upper trimmed opening on the zero "Y" plane with rear door fully open.
- H250 TAILGATE TO GROUND CURB MASS (WT.). The dimension measured vertically from the top of the undeepressed floor covering on the lowered tailgate to ground on the zero "Y" plane.
- V2 STATION WAGON
Measured in inches:

$$\frac{W4 \times H201 \times L204}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{W4 \times H201 \times L204}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V5 TRUCKS AND MPV'S WITH OPEN AREA.
Measured in inches:

$$\frac{L506 \times W500 \times H503}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{L506 \times W500 \times H503}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V6 TRUCKS AND MPV'S WITH CLOSED AREA.
Measured in inches:

$$\frac{L204 \times W500 \times H505}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{L204 \times W500 \times H505}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V8 HIDDEN LUGGAGE CAPACITY-REAR OF SECOND SEAT. The total volume of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the second seat.
- V10 STATION WAGON CARGO VOLUME INDEX.
Measured in inches:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{H201 \times L205 \times \frac{W4 + W201}{2}}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

Hatchback – Cargo Space Dimensions

All hatchback cargo dimensions are to be taken with the front seat in full down and rear position, and the rear seat folded down. The hatchback door is in the closed position. (For electrically adjusted seats, see the manufacturer's specifications for Design "H" Point).

- L208 CARGO LENGTH AT FRONT SEATBACK HEIGHT. The minimum horizontal dimension from the "X" plane tangent to the rearmost surface of the driver's seatback to the inside limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L209 CARGO LENGTH AT FLOOR-FRONT-HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the front seatback to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- L210 CARGO LENGTH AT SECOND SEATBACK HEIGHT-HATCHBACK. The minimum dimension measured from the "X" plane tangent to the rearmost surface of second seatback or the load floor which is stowed at least one half of the H198 dimension height above the rear load floor, to the rearmost inside limiting interference on the zero "Y" plane.
- L211 CARGO LENGTH AT FLOOR-SECOND HATCHBACK. The minimum horizontal dimension measured at floor level from the rear of the second seatback or load floor panel to the normal limiting interference of the hatchback door on the vehicle zero "Y" plane.
- H197 FRONT SEATBACK TO LOAD HEIGHT. The dimension measured vertically from the horizontal tangent to the top of the seatback to the undeepressed floor covering.
- H198 SECOND SEATBACK TO LOAD FLOOR HEIGHT. The dimension measured vertically from the second seat back to the undeepressed floor covering.
- V3 HATCHBACK.
Measured in inches:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{\frac{L208 + L209}{2} \times W4 \times H197}{10^9} = \text{m}^3 \text{ (cubic meter)}$$
- V4 HIDDEN LUGGAGE CAPACITY-REAR OF FRONT SEAT. The total volumes of individual pieces of one set of standard luggage stowed in any hidden cargo area below the load floor rear of the front seat.
- V11 HATCHBACK CARGO VOLUME INDEX. Usable luggage (one (1) stand and luggage set) below floor:
Measured in inches:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{1728} = \text{ft}^3$$
 Measured in mm:

$$\frac{\frac{L210 + L211}{2} \times W4 \times H198}{10^9} = \text{m}^3 \text{ (cubic meter)}$$

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Passenger Car

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